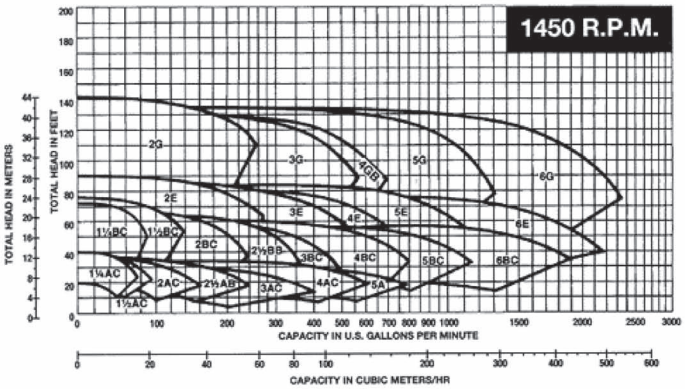
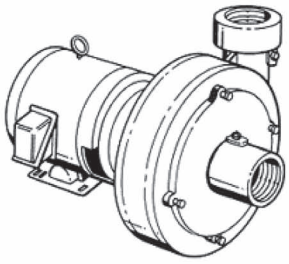
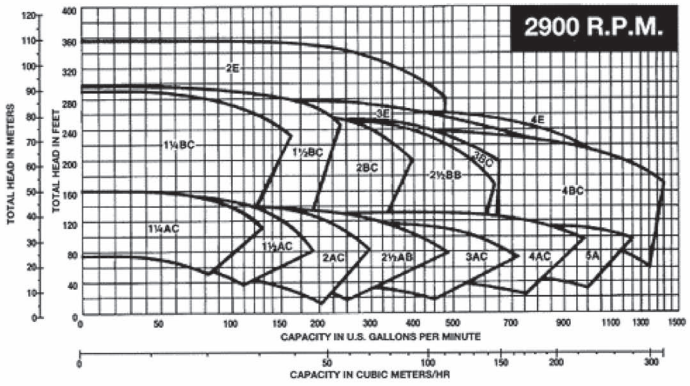
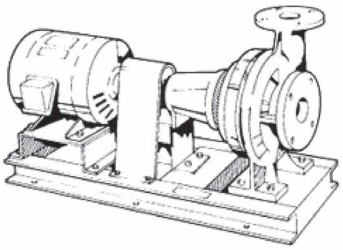




SERIES 1531





SERIES 1510

CURVES
BX-260D

Series 1531 & 1510

Centrifugal Pumps
For 50 Cylcle Operation

Bell & Gossett
a xylem brand

50 CYCLE PERFORMANCE CURVES

FOR SERIES 1531 AND 1510 CENTRIFUGAL PUMPS

IMPORTANT SELECTION NOTES (BASED ON WATER APPLICATIONS)

1. Good design practices for hydronic systems suggest that selection of pipe size be based on the flow rate required. Suction piping should be equal to or larger than the suction size of the pump, but never smaller.

Please note that the pump numbers (e.g. 3"BB) correspond to the *discharge size* of the pump and *suction openings are one size larger* (e.g. suction size for 3"BB is 4").

NOTE: Since high speed pumps (2900 RPM) are often used for industrial or special high pressure applications where velocity and system noise are of little or no consequence these sizing rules need not apply.

2. Motor overload will take place at point where H.P. curve crosses impeller diameter curve. Always select adequate H.P. should actual flow rate of pump increase beyond selection point.

3. Calculate Motor H.P. Although the required motor horsepower is shown crossing pump-impeller curves, the following formula may also be used to calculate the required H.P. at the exact operating point.

$$\text{Motor H.P.} = \frac{\text{GPM x Head (ft.)}}{\text{3960 x EFF. (from curves)}}$$

$$\text{Example: H.P.} = \frac{\text{400 GPM x 10 ft.}}{\text{3960 x .50 (50\%)}} = 2 \text{ H.P.}$$

4. Impeller diameters (parallel curves marked in inches) will be cut in fractions to meet required flow and head conditions. "G" size pumps are available only as basemounted 1510 pumps and with 1450 RPM motors.

5. For complete information on the application of our pumps, ask for the Selection and Application of Centrifugal Pumps Manual # TEH-375.

CONVERSION TABLE — FOR WATER

When other pumping conditions are given – convert to feet of head and capacity in U.S. GPM. Multiply by appropriate correction factor. All factors are based on water.

MULTIPLY	BY	TO OBTAIN	MULTIPLY	BY	TO OBTAIN
Centimeters	0.0328	Feet of Head	Imperial Gals/Min.	1.2	U.S. Gals. per Min.
Meters	3.281	Feet of Head	Liters/Min.	0.264	U.S. Gals. per Min.
PSI	2.31	Feet of Head	Liters/Sec.	15.85	U.S. Gals. per Min.
Kilo Pascal	0.3346	Feet of Head	Liters/Hr.	0.0044	U.S. Gals. per Min.
Kilo Newton/Meters^2	0.335	Feet of Head	Cubic Meters/Min.	264.2	U.S. Gals. per Min.
Kilogram per Square Centimeter	32.85	Feet of Head	Lbs./Min.	0.12	U.S. Gals. per Min.
			Cubic Meters/Hr.	4.4	U.S. Gals. per Min.

SEALING SELECTION GUIDE

STANDARD SEALS – Closed or open systems where the system is relatively free of dirt and/or other abrasive particles.

FLUSHED SINGLE SEALS – Closed or open systems where the temperature or pressure is above the limitations of standard seals.

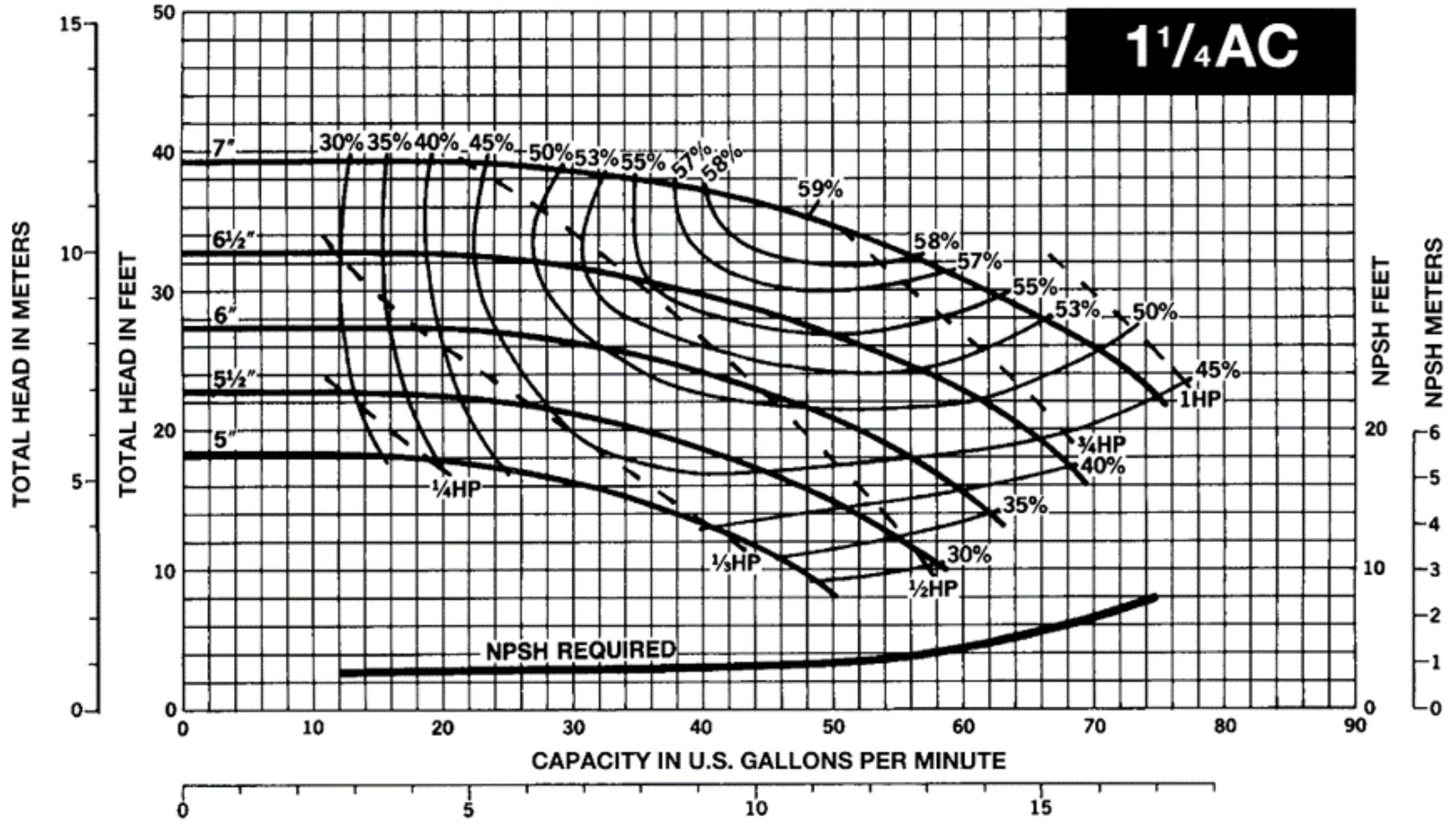
DOUBLE SEALS – Closed or open low pressure systems where the system contains a high concentration of abrasive solids.

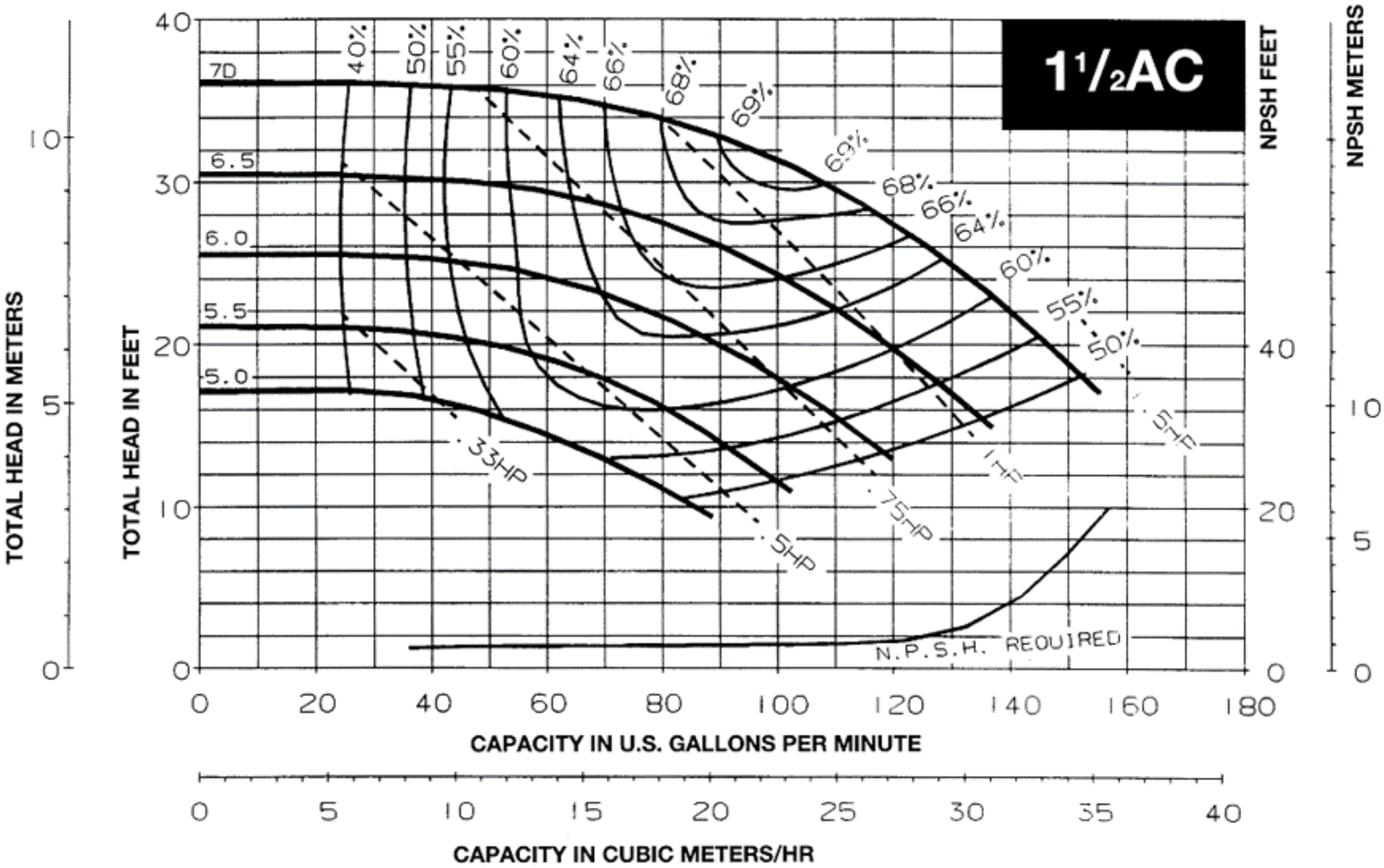
PACKING – Closed or open systems where a large amount of make-up water is required and/or systems which are subjected to widely varying chemical conditions and solids buildup.

NOTE: For specific sealing recommendation consult your B&G representative.

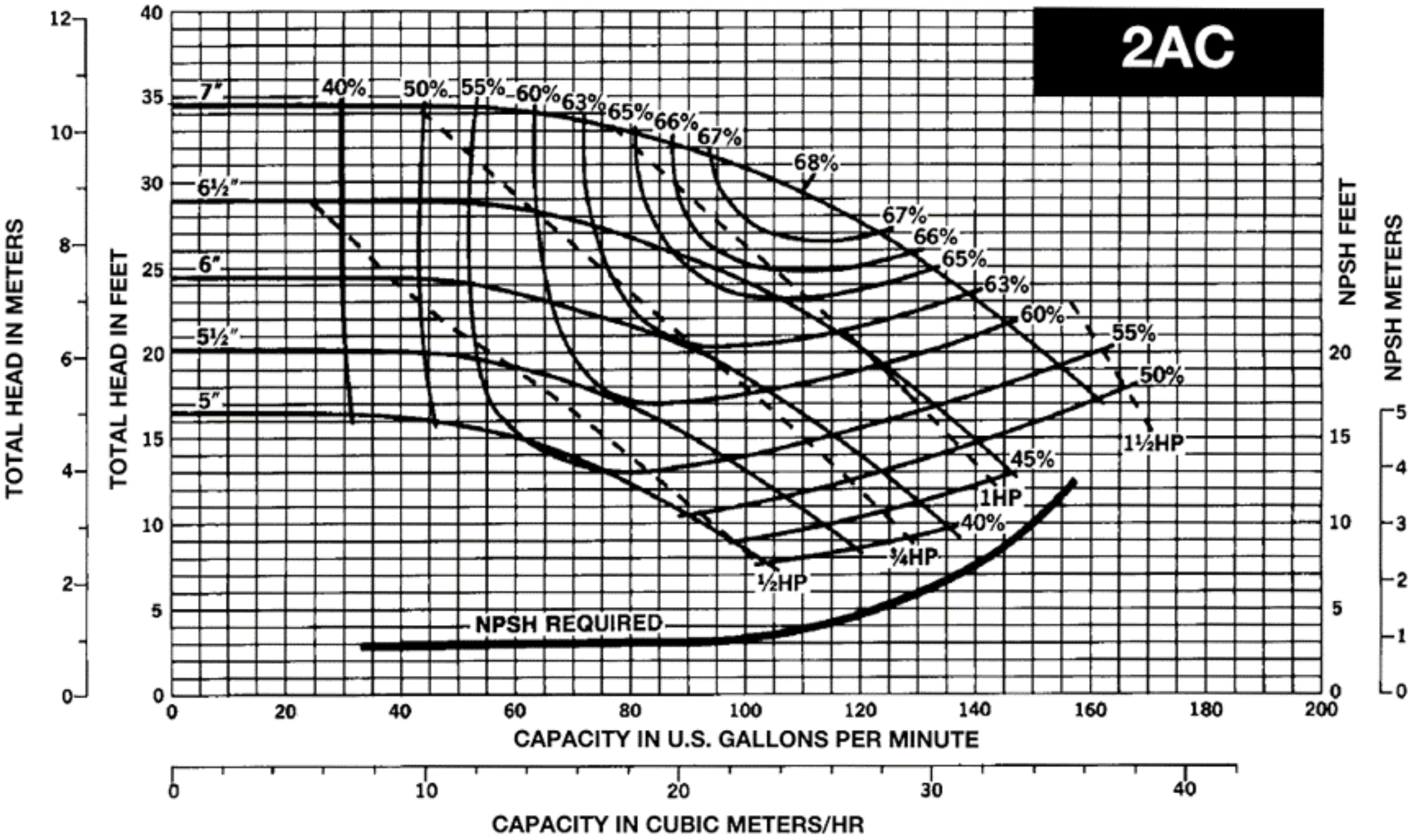
NOTE: "G" size pumps are not available in the 1531 Series.

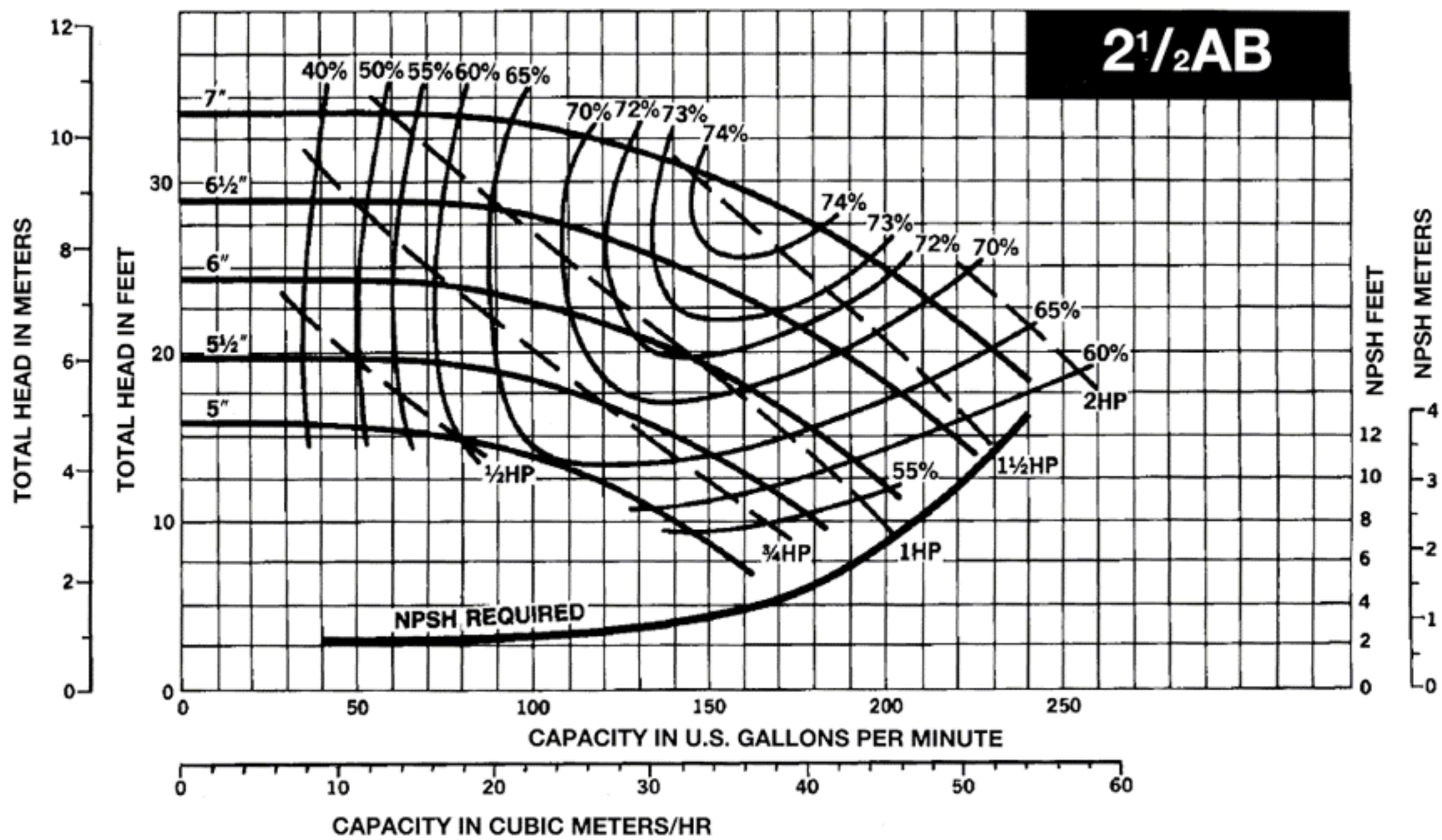
"A" Series 1450 RPM





"A" Series 1450 RPM





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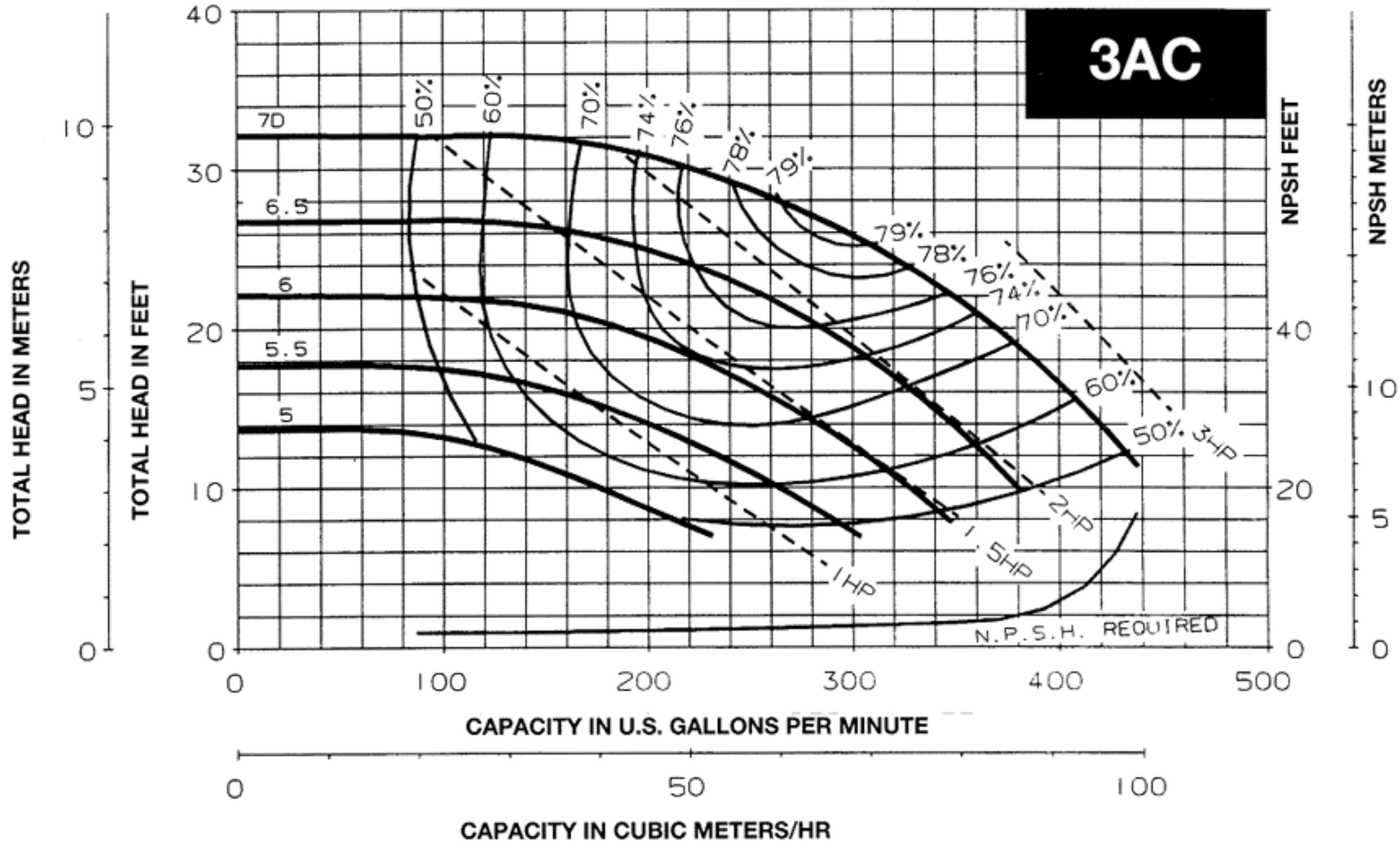

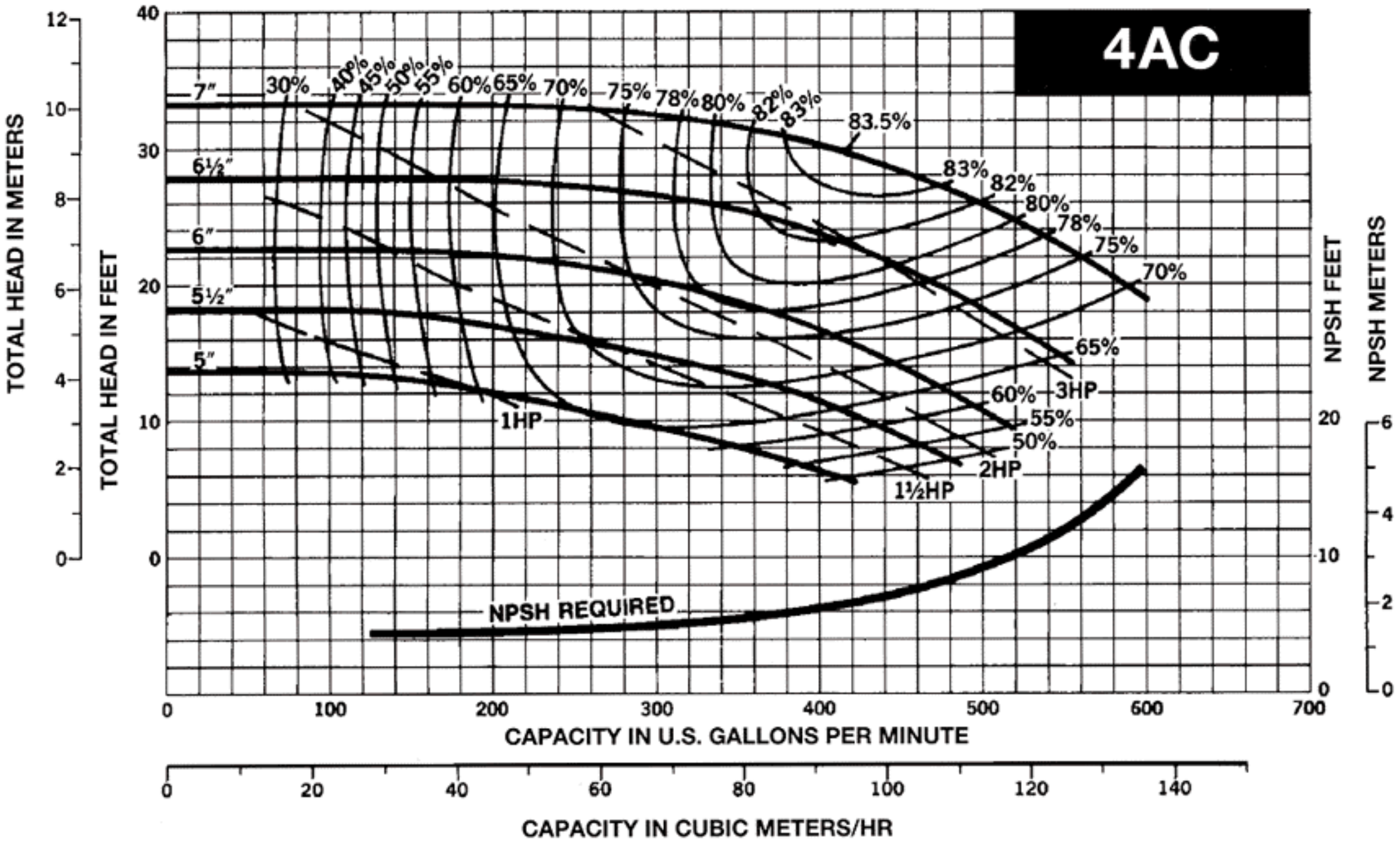

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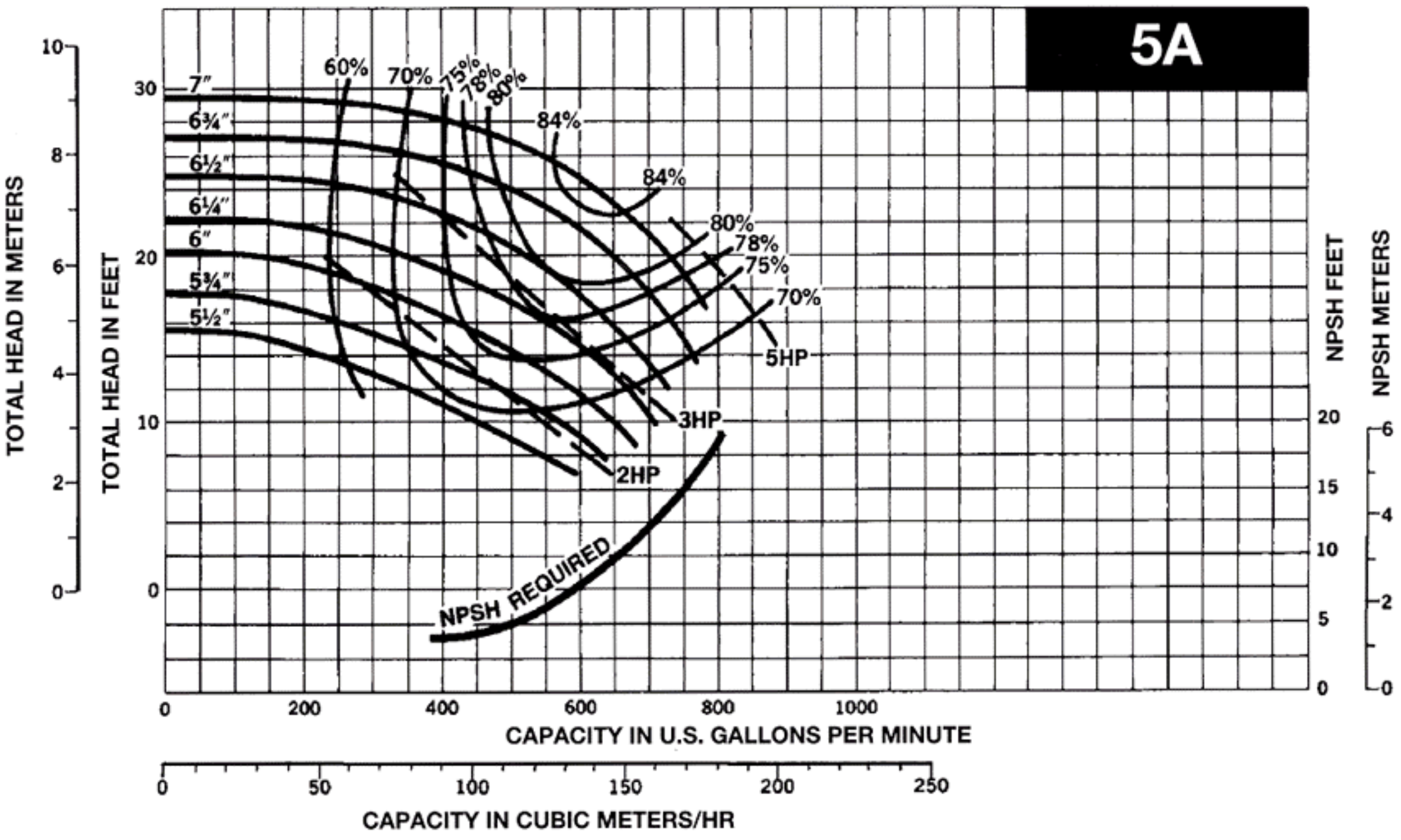

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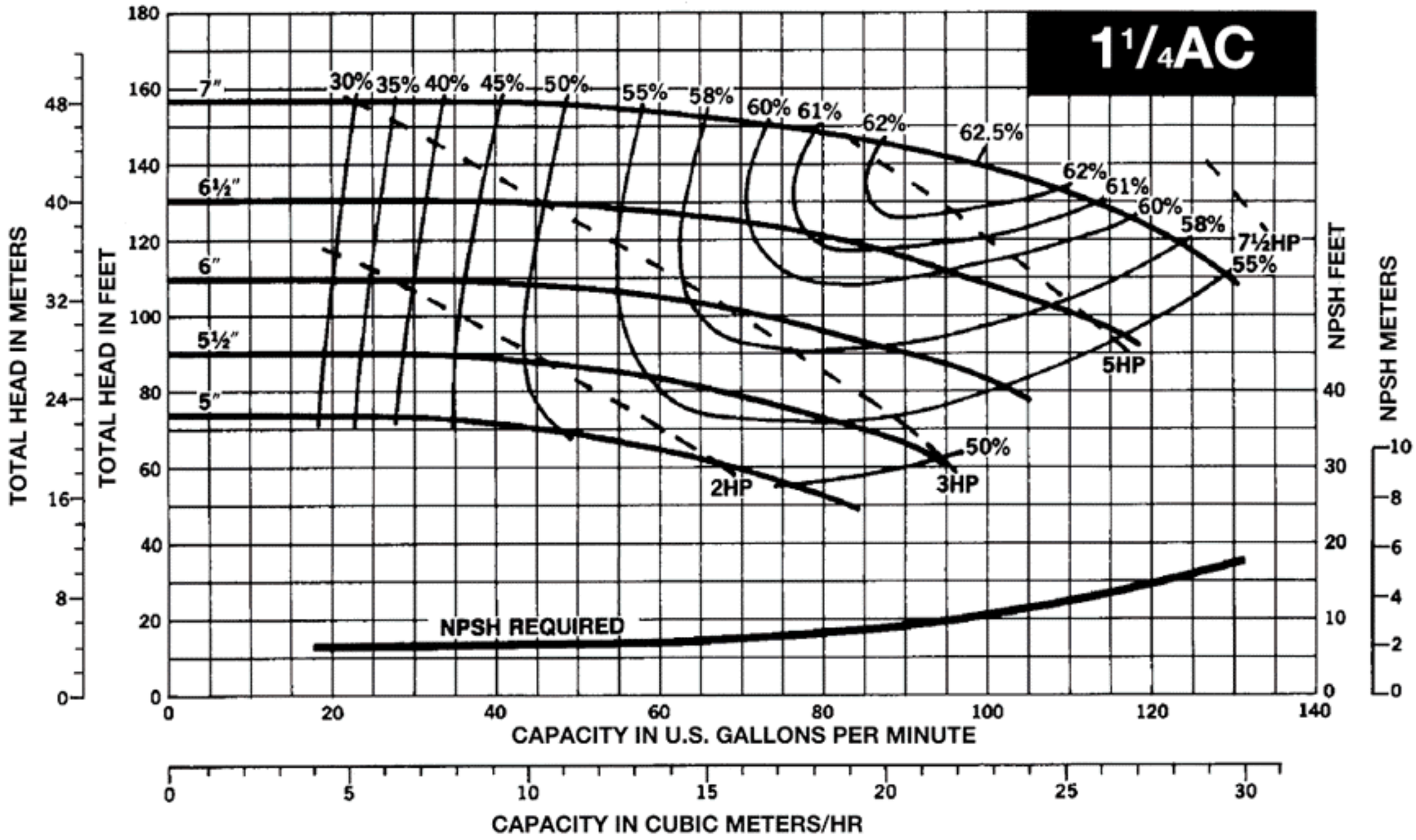

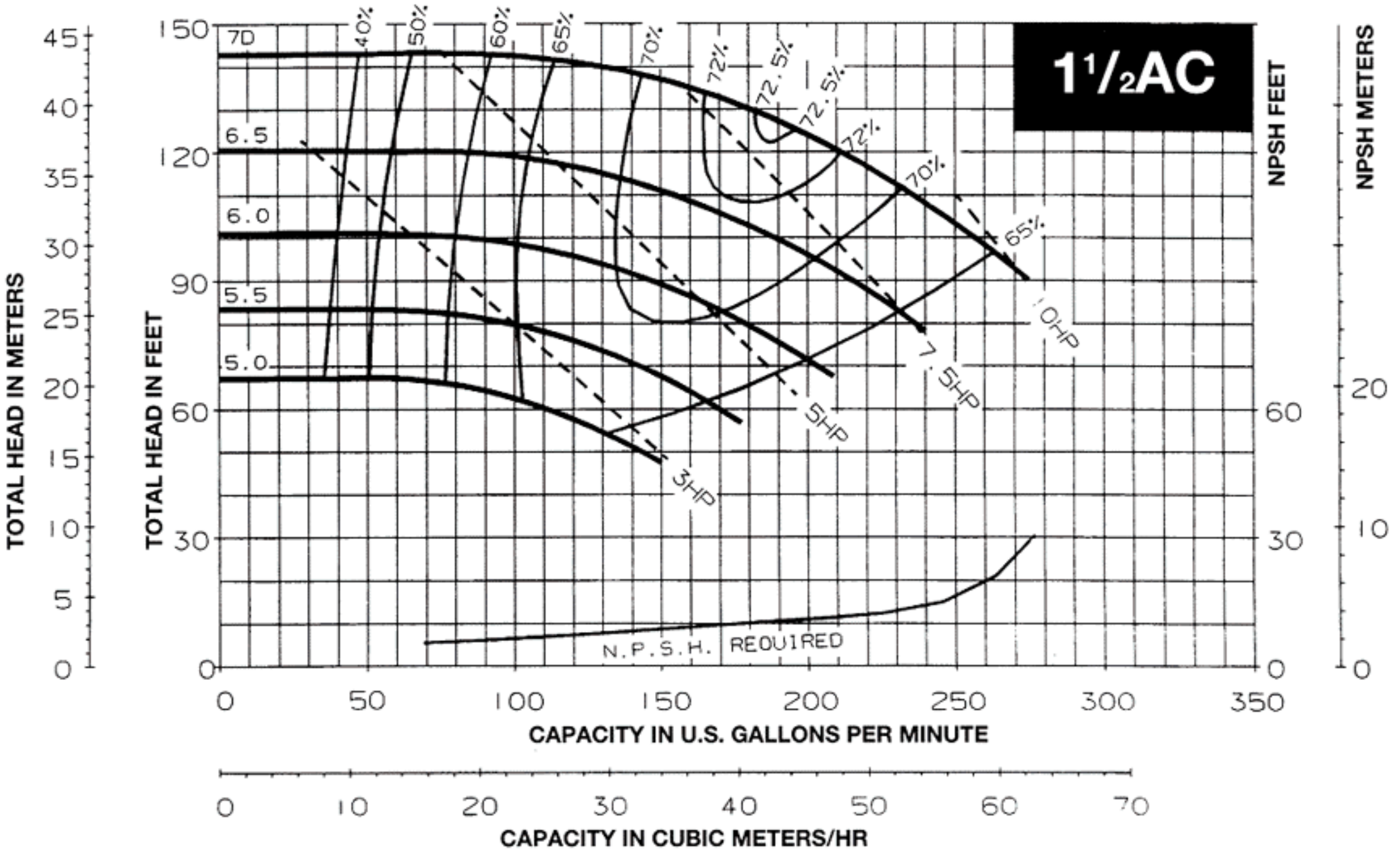

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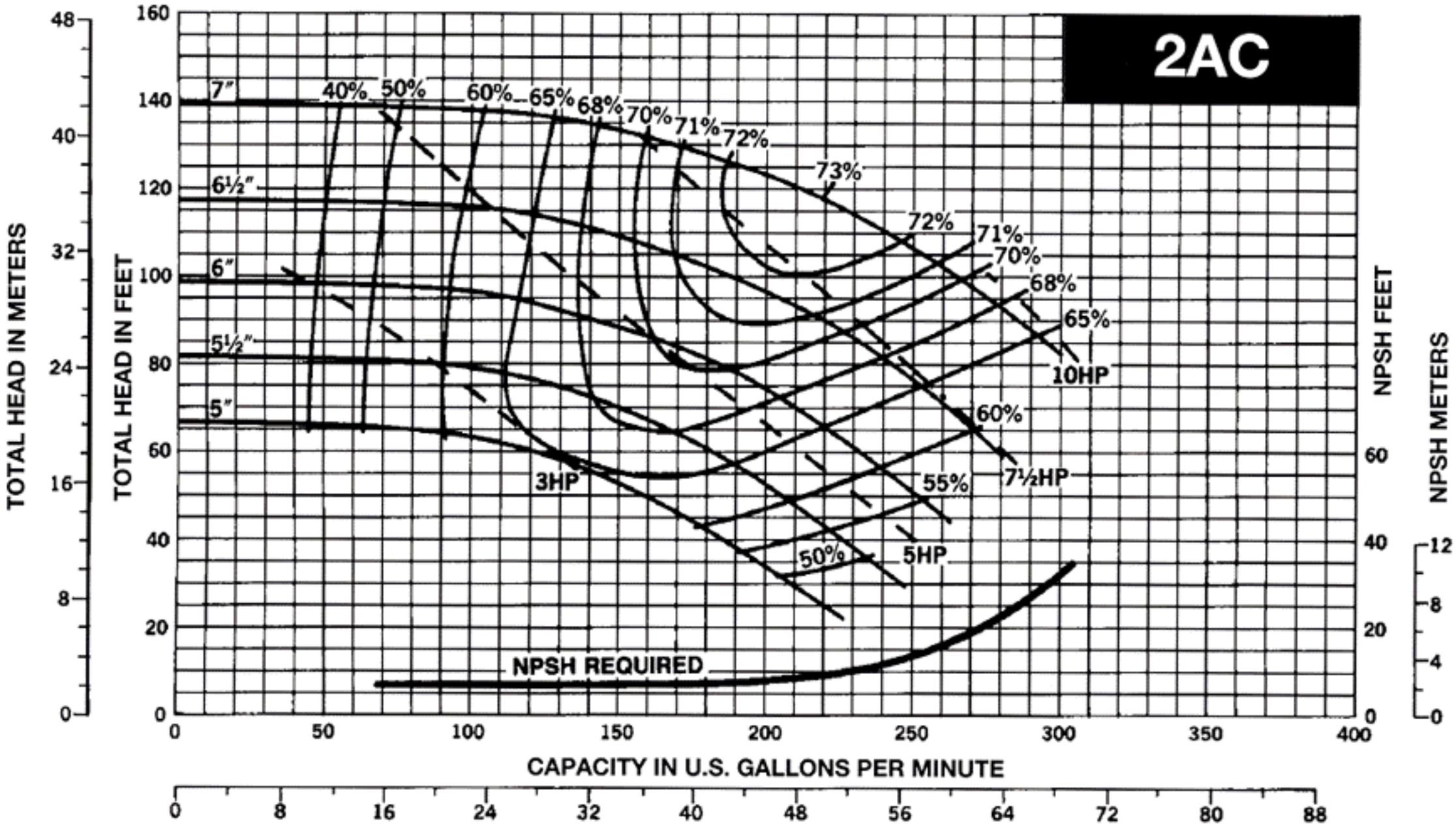

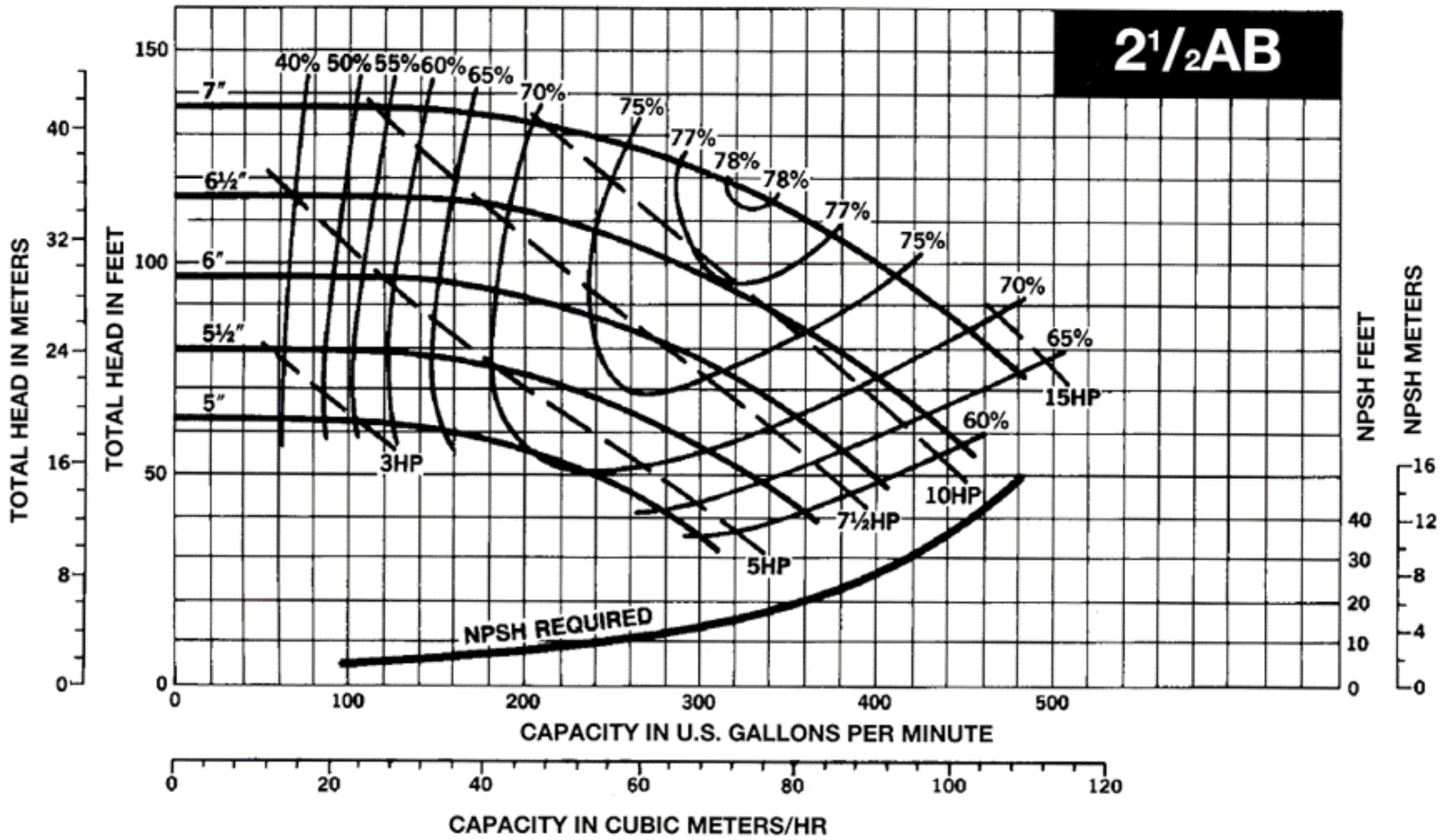

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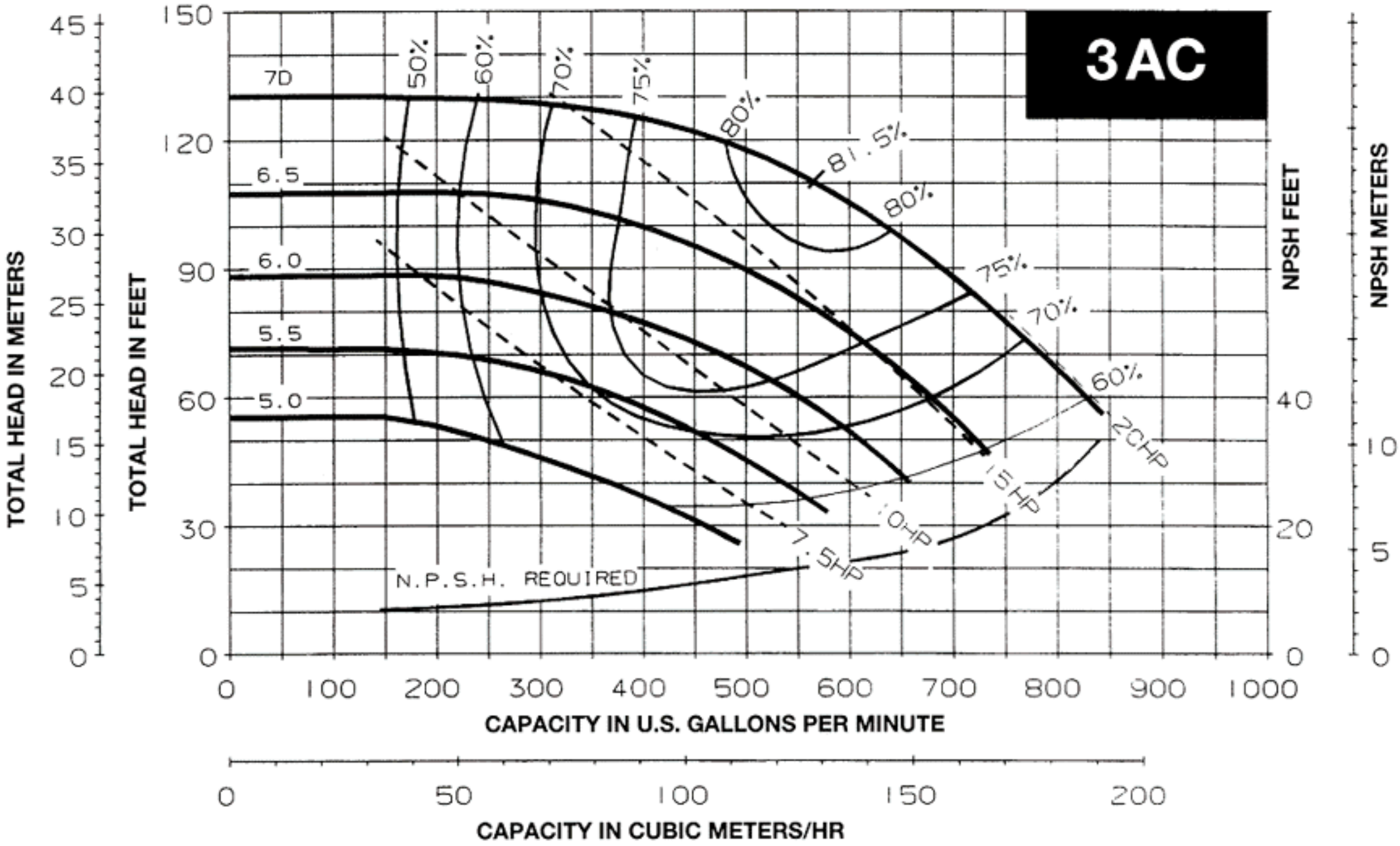

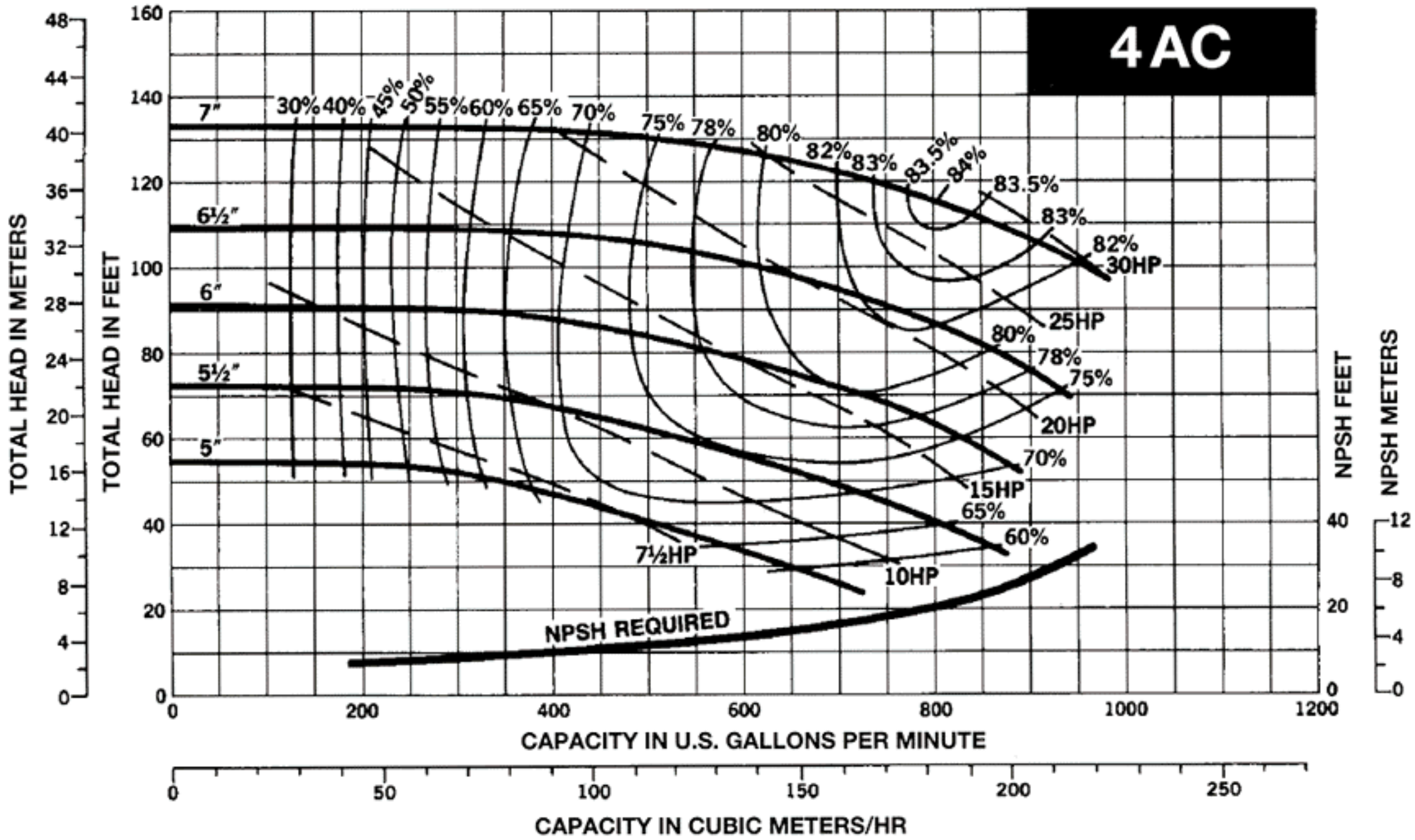

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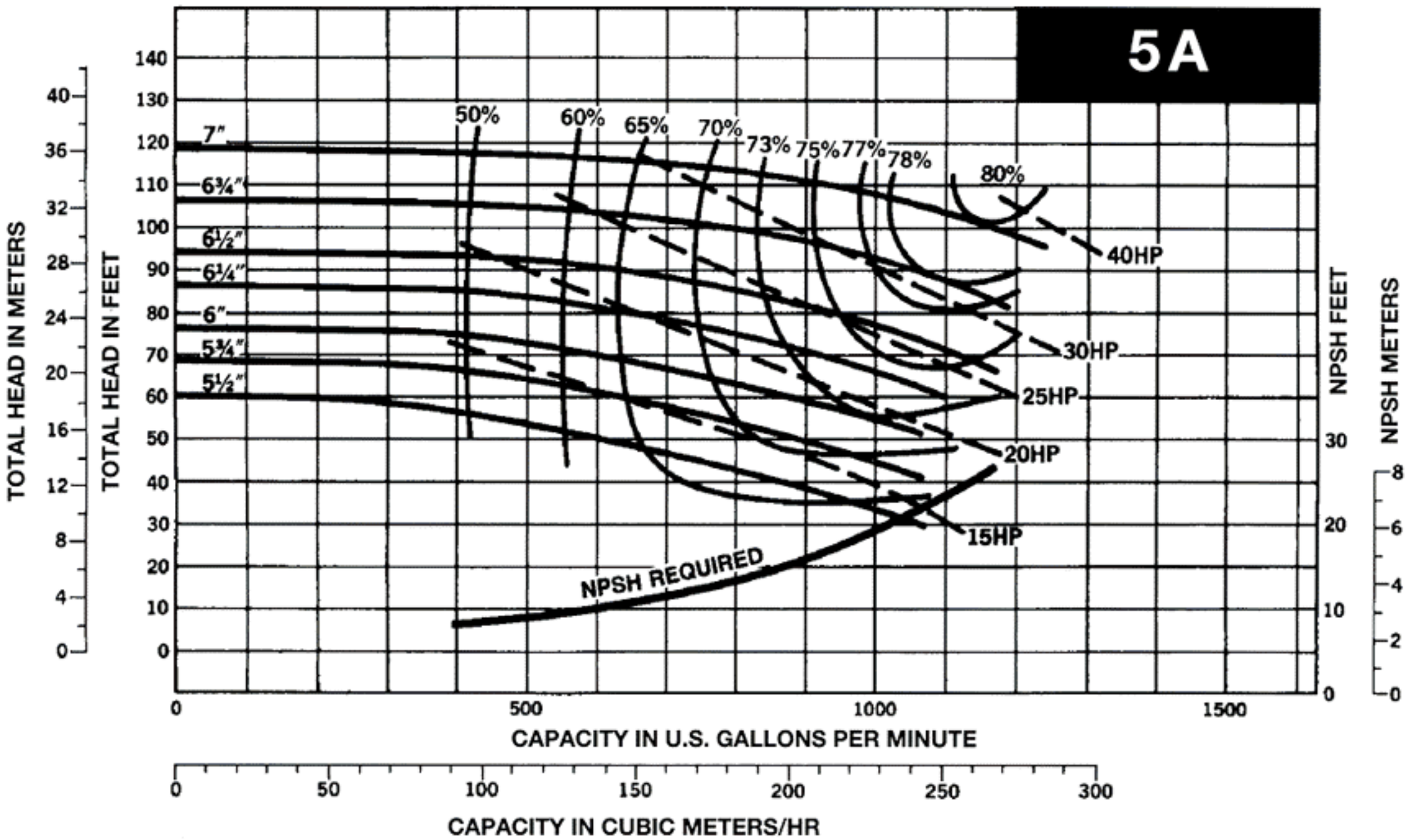

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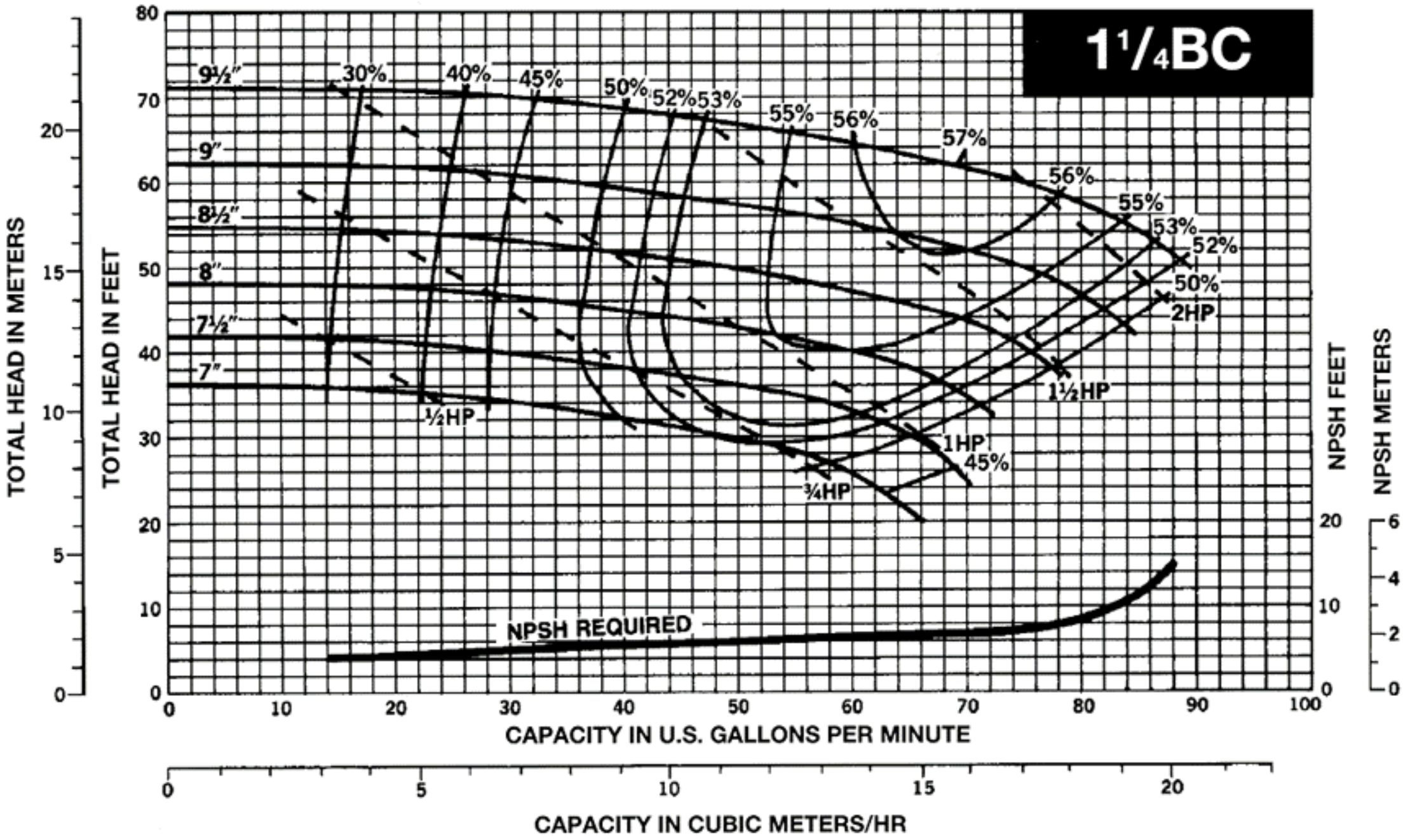

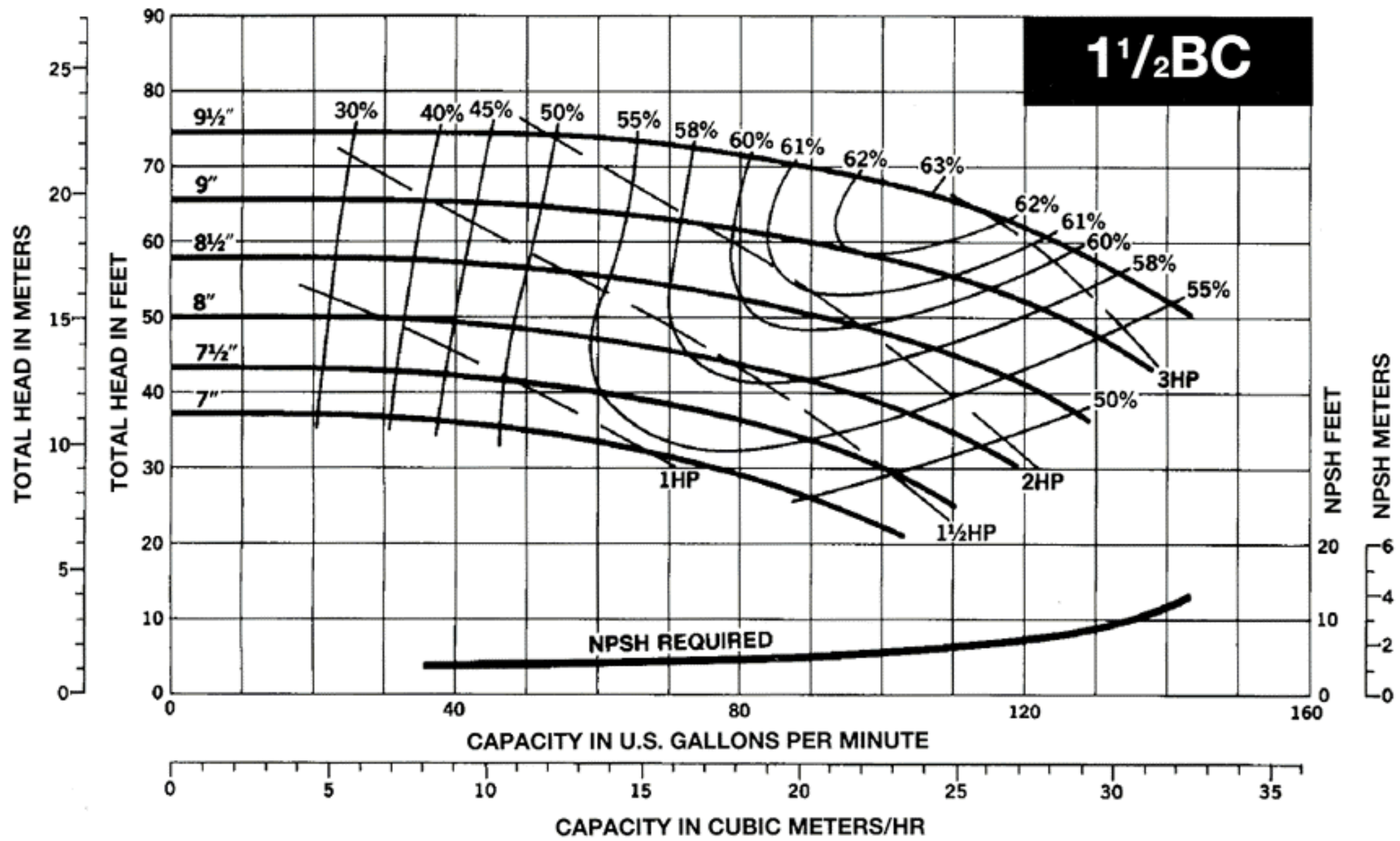

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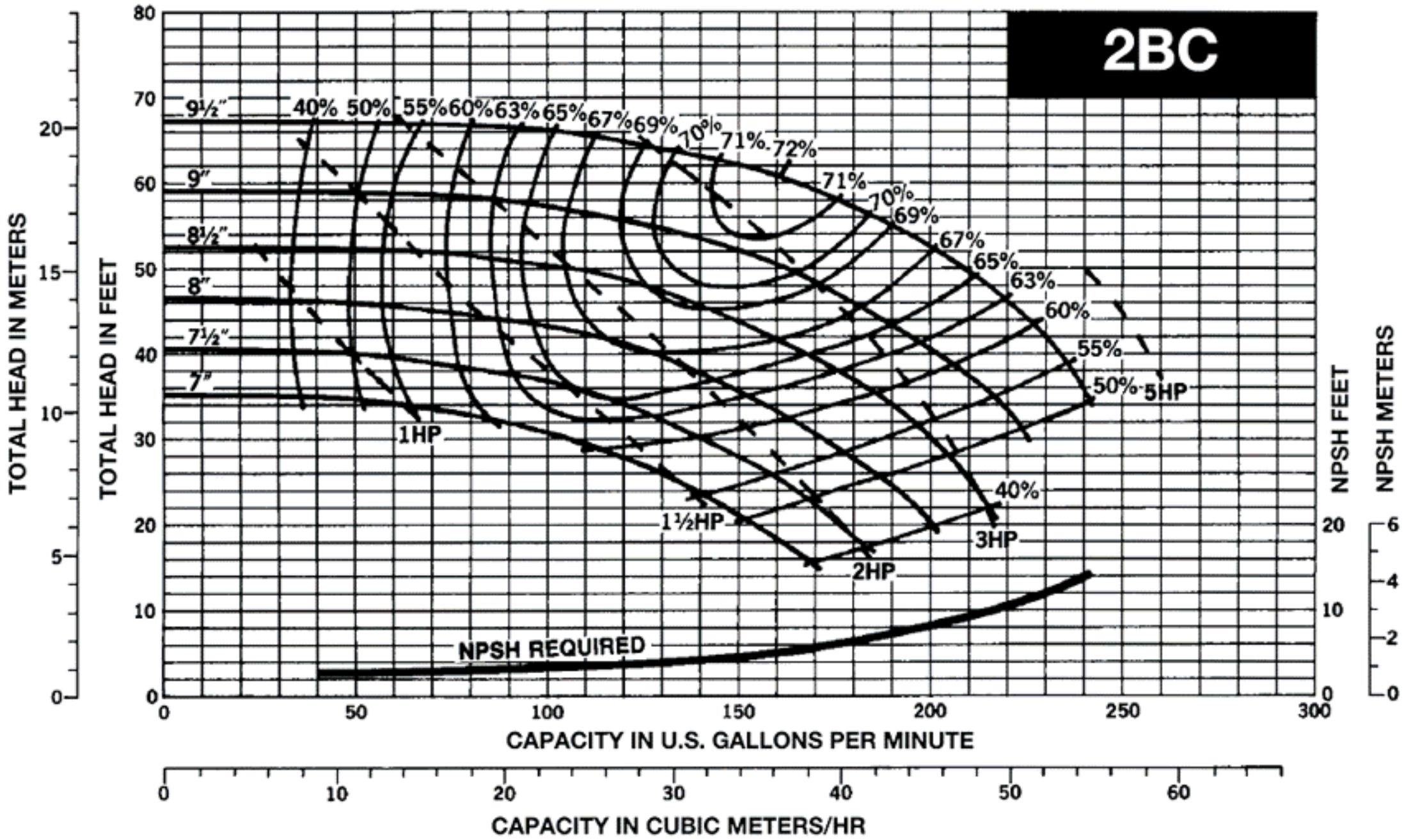

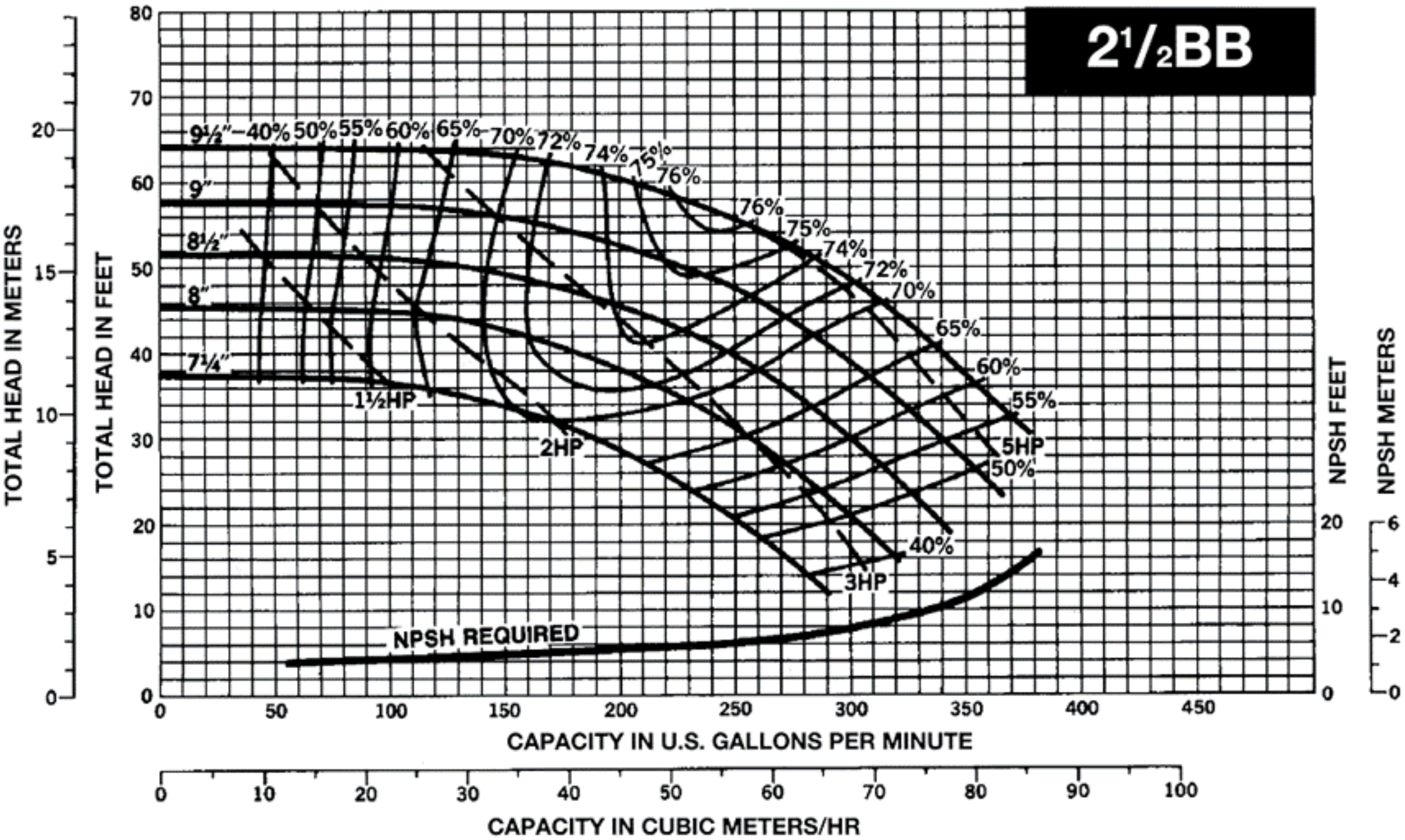

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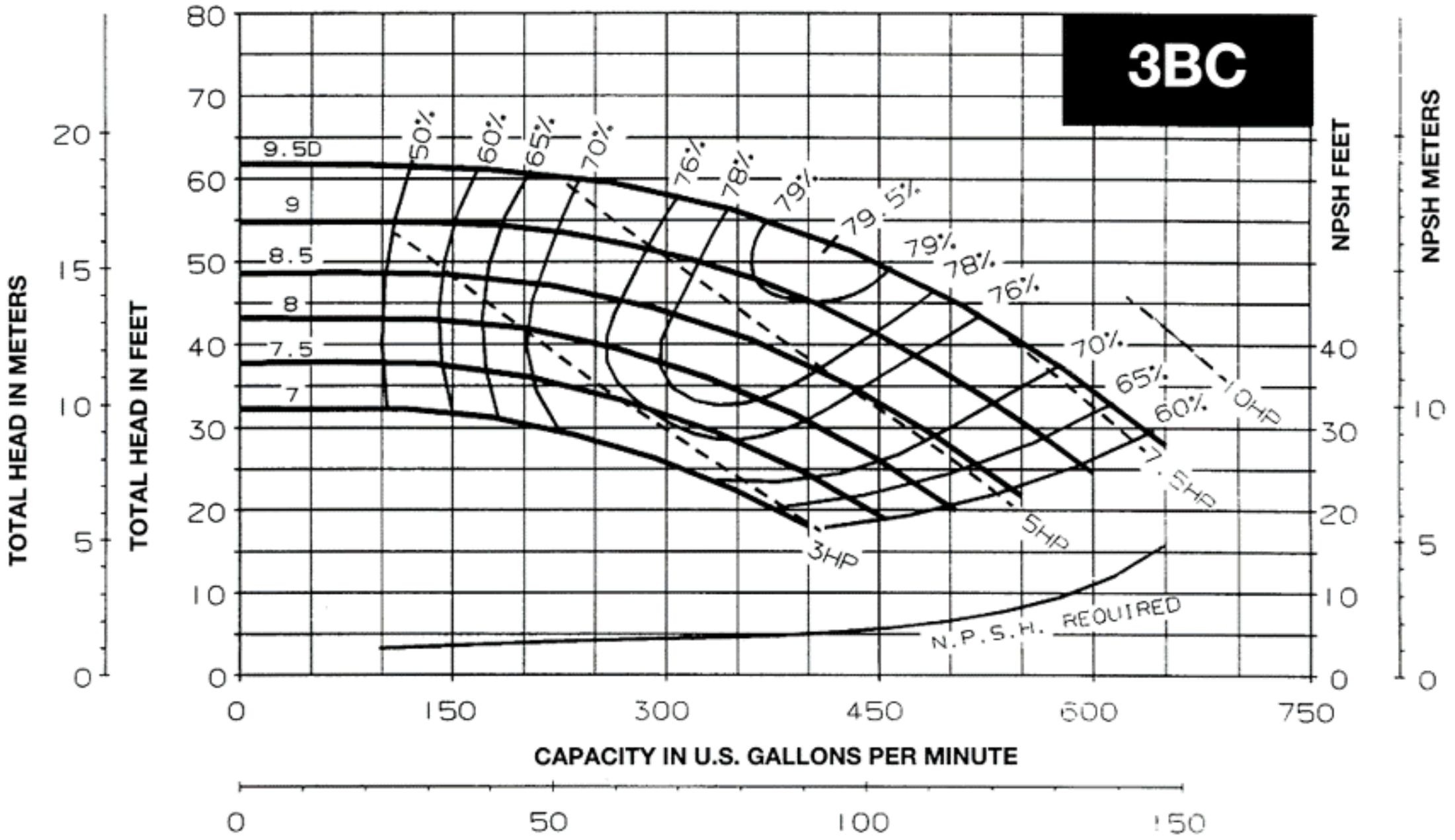

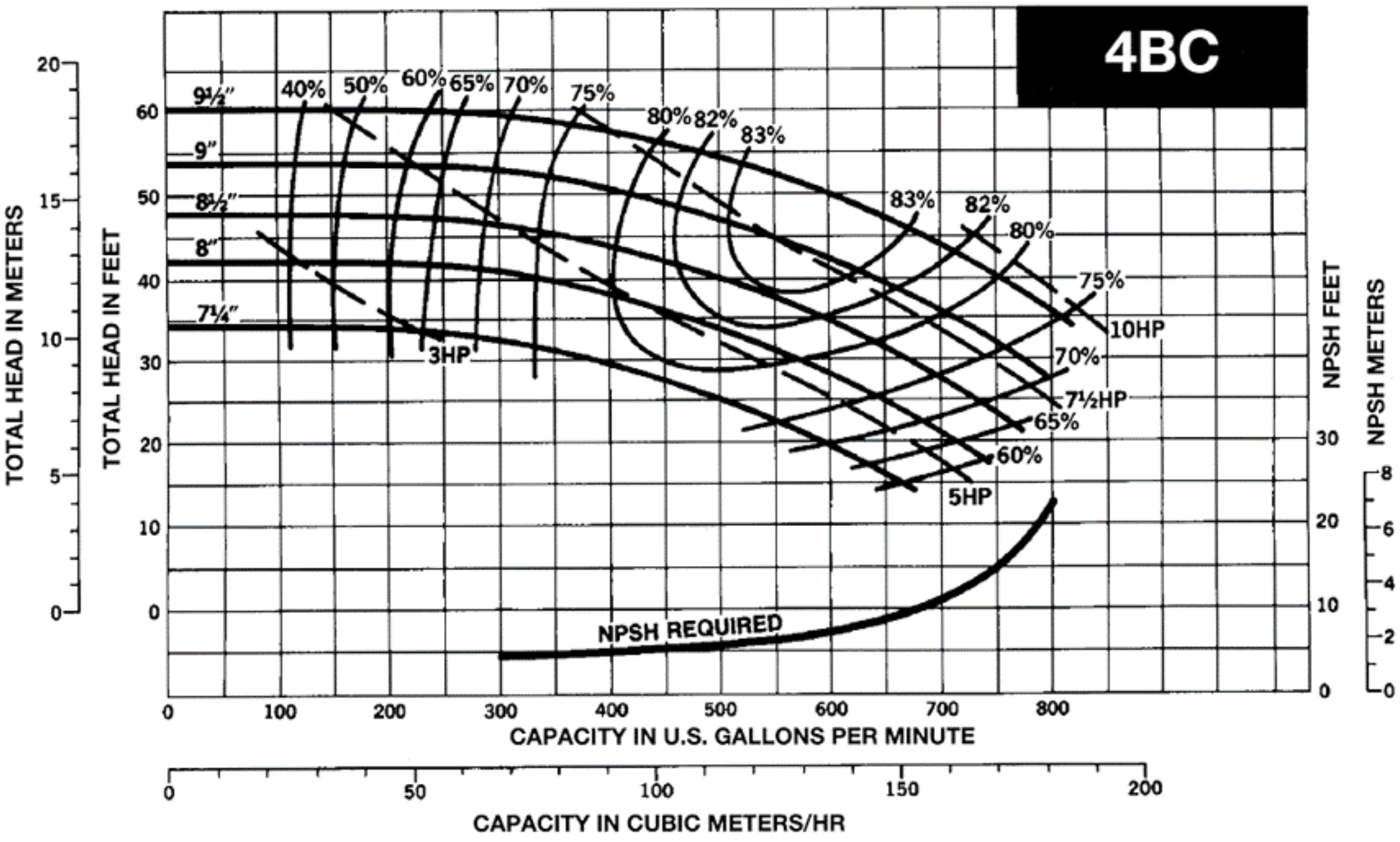

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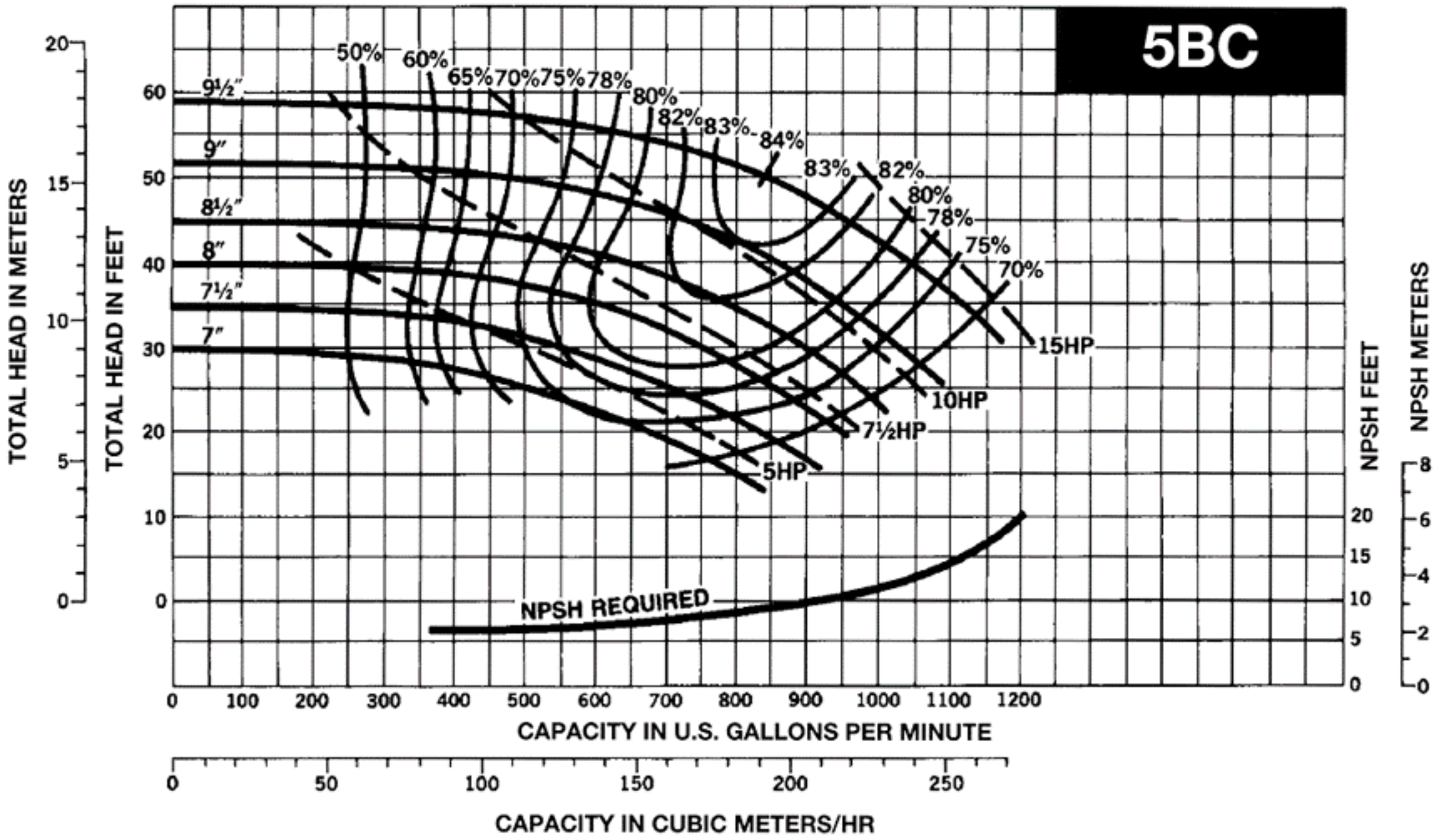

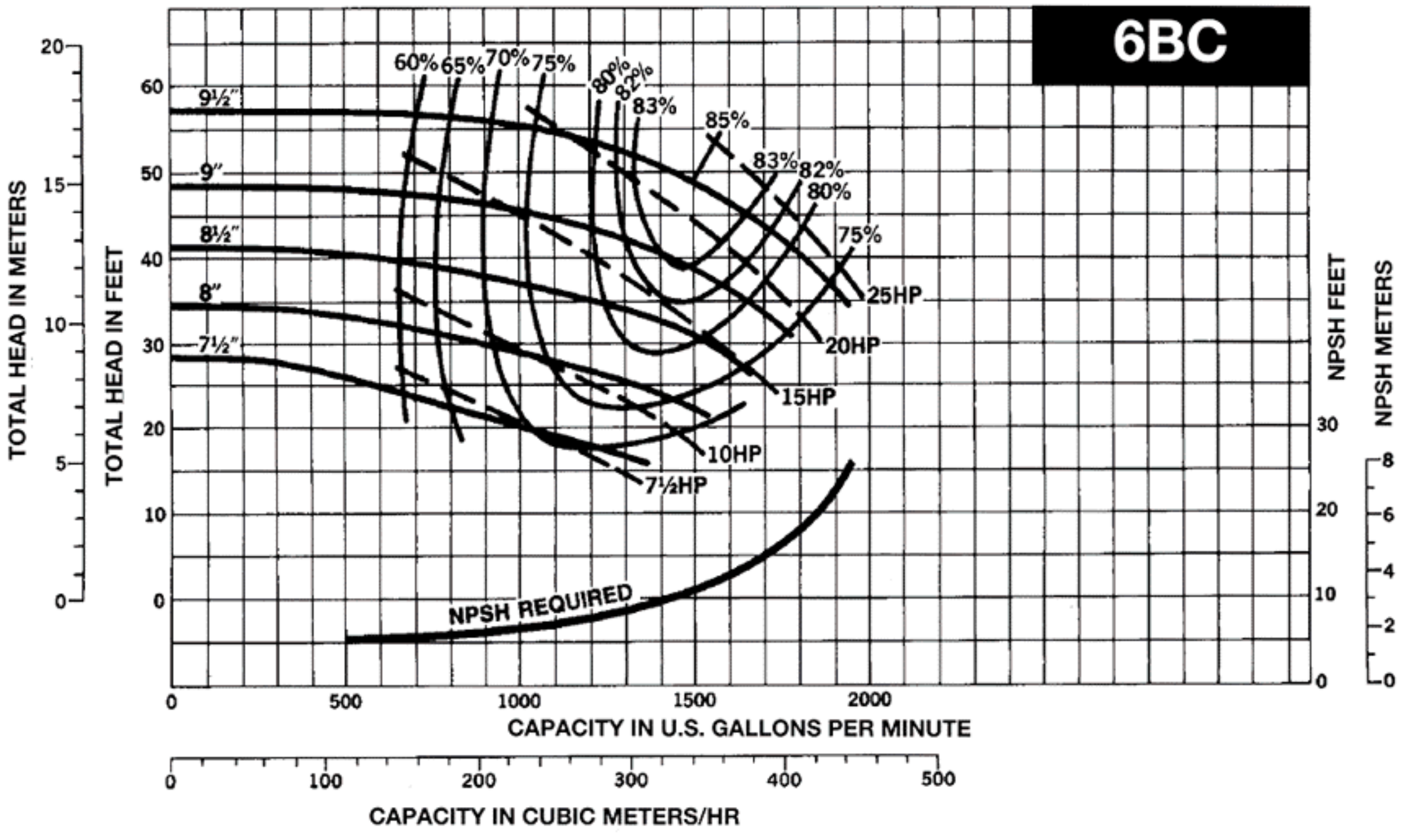

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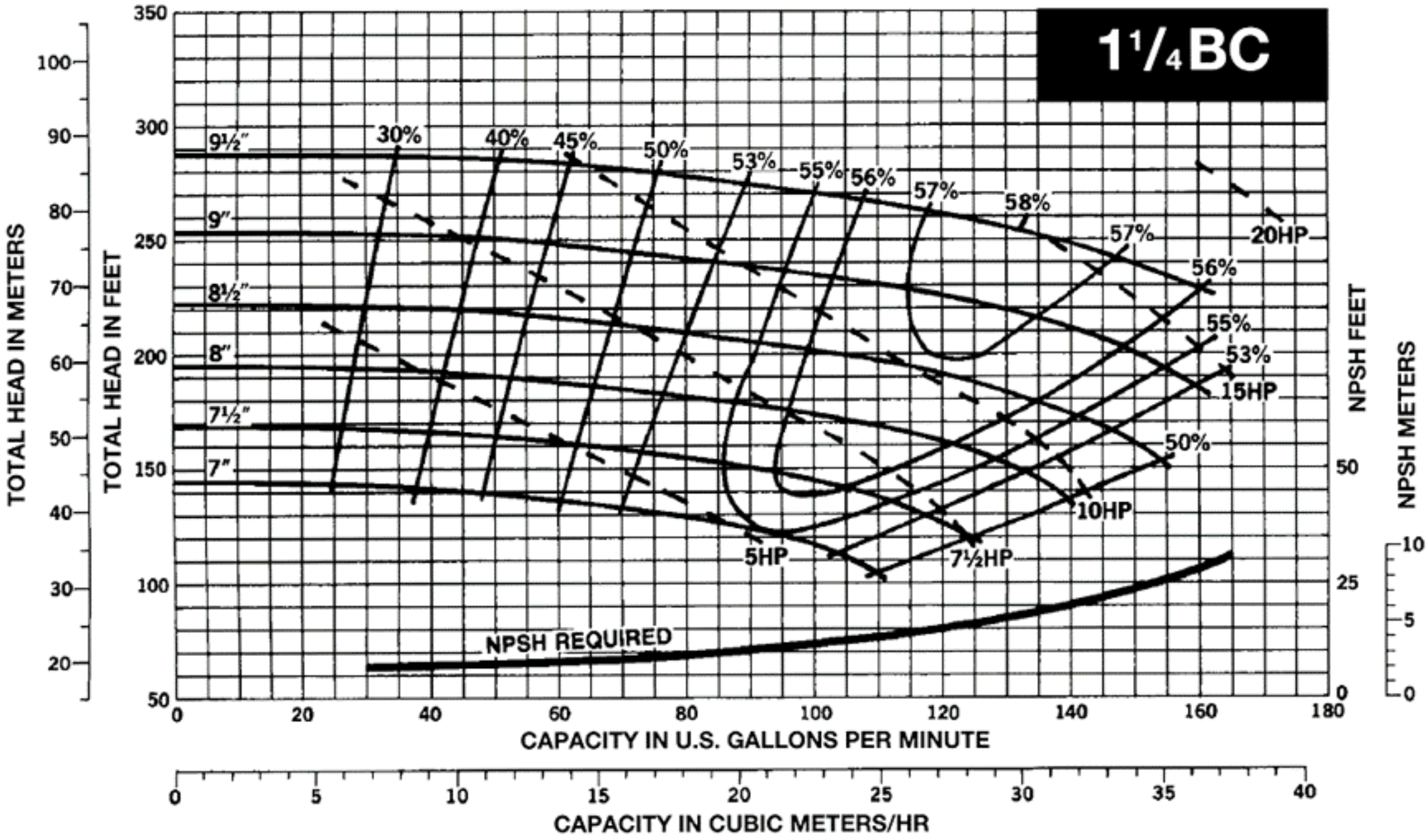

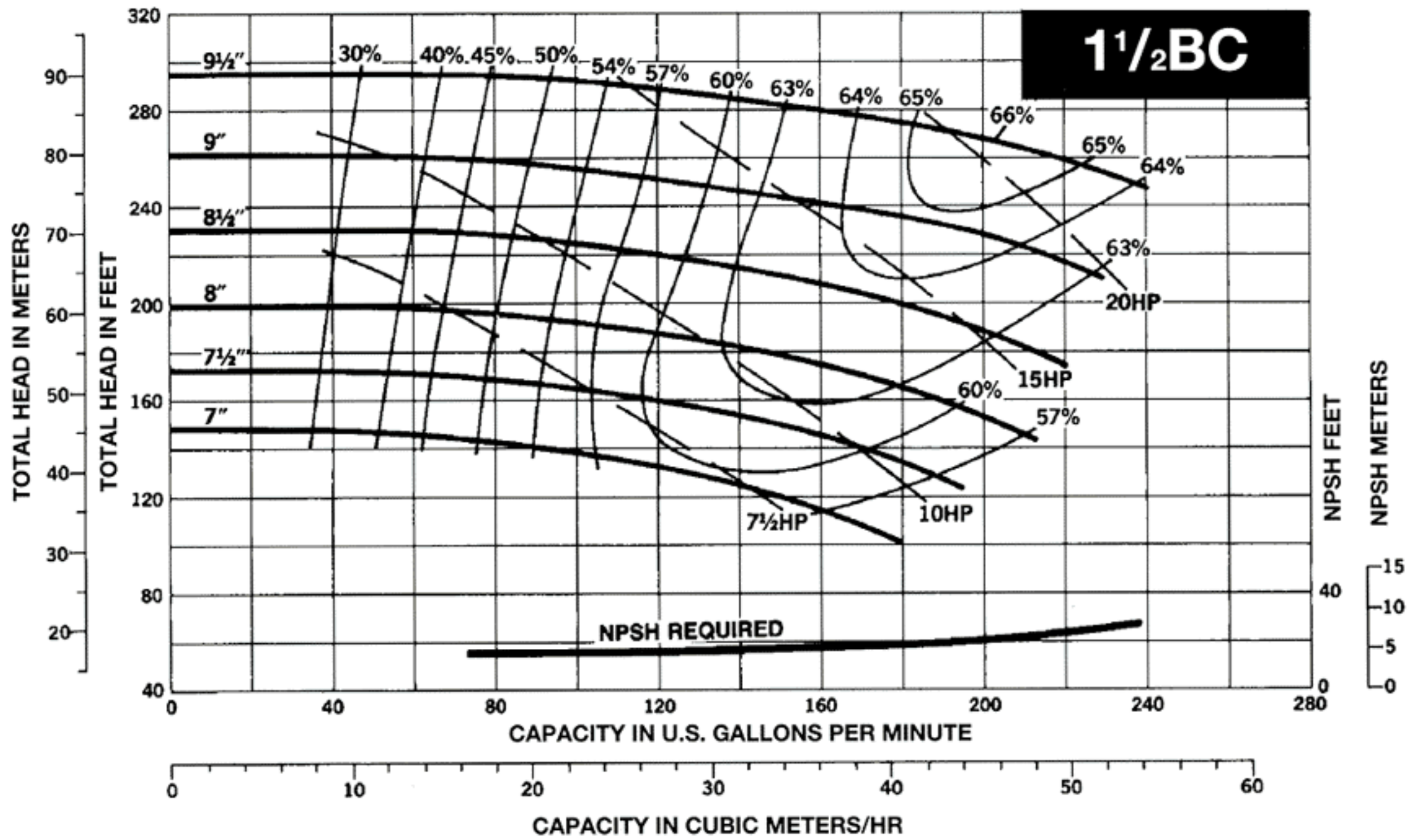

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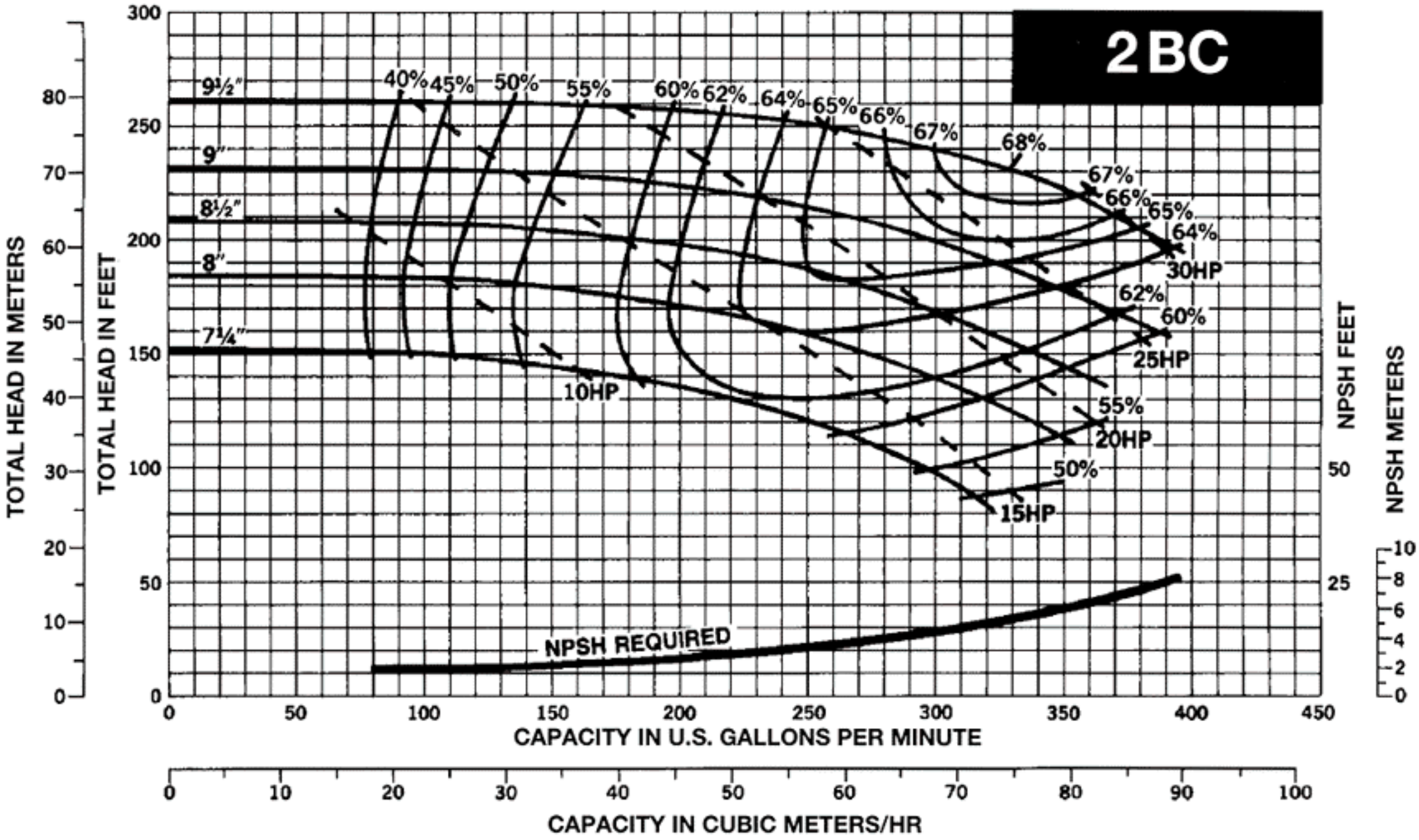

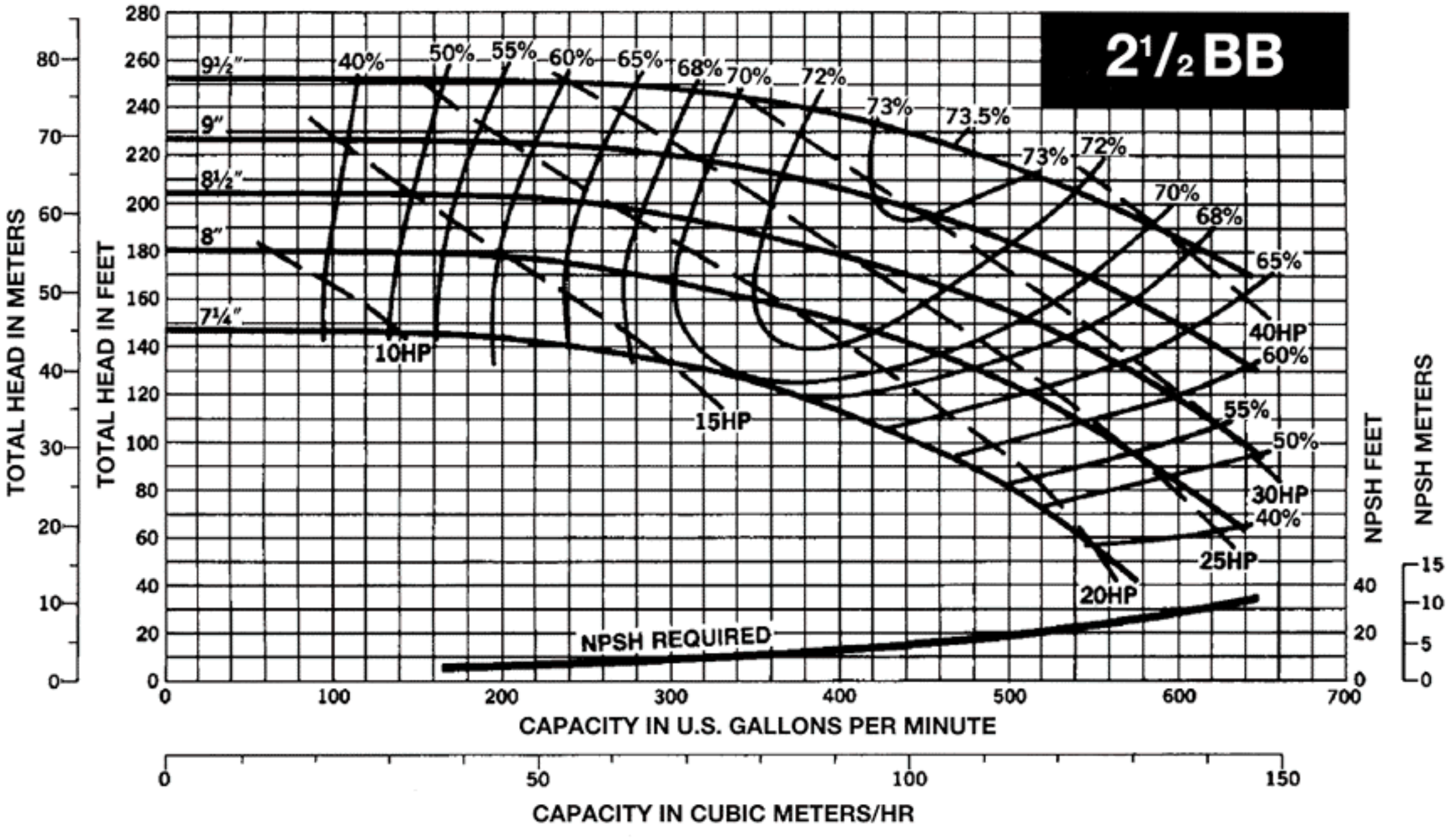

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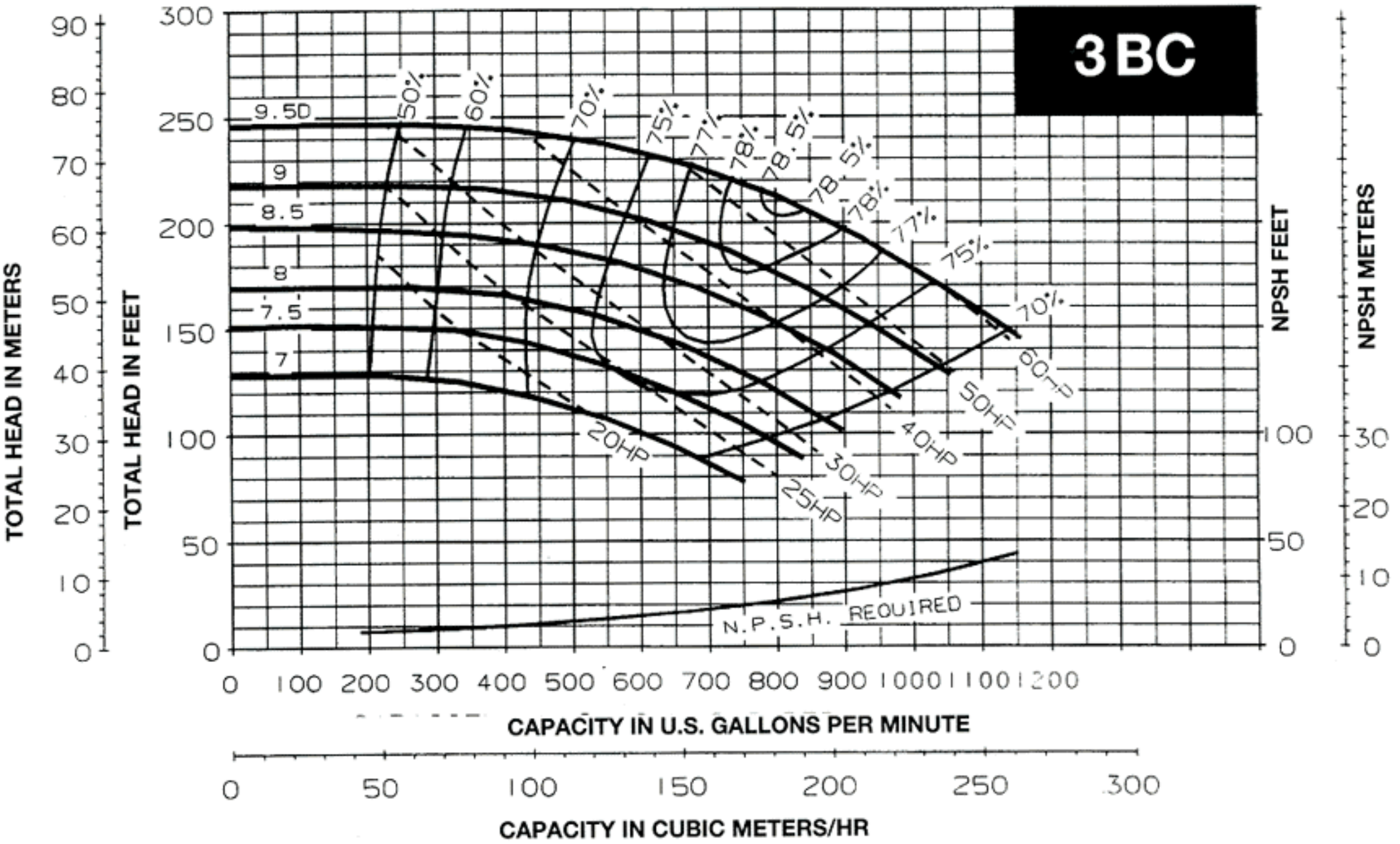

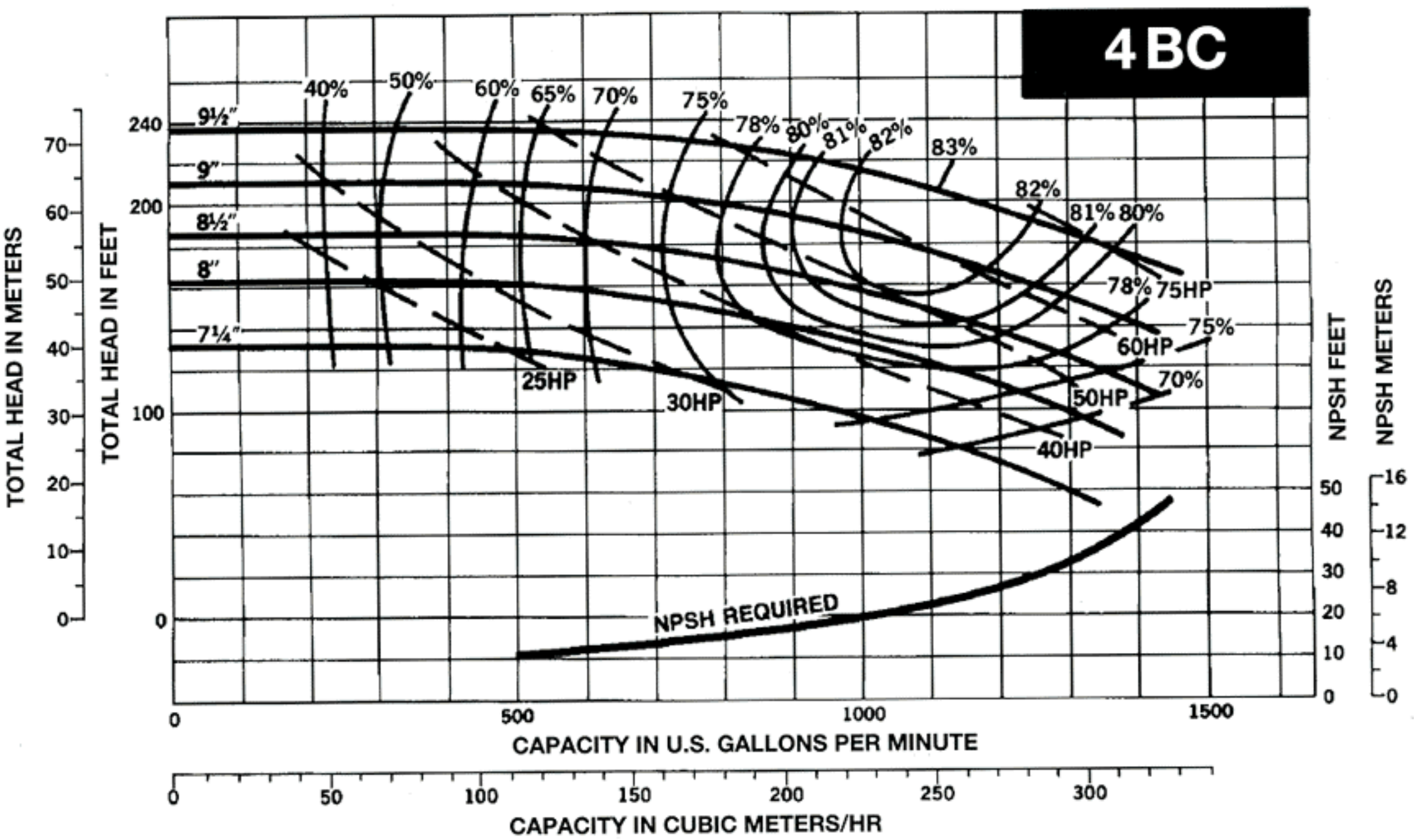

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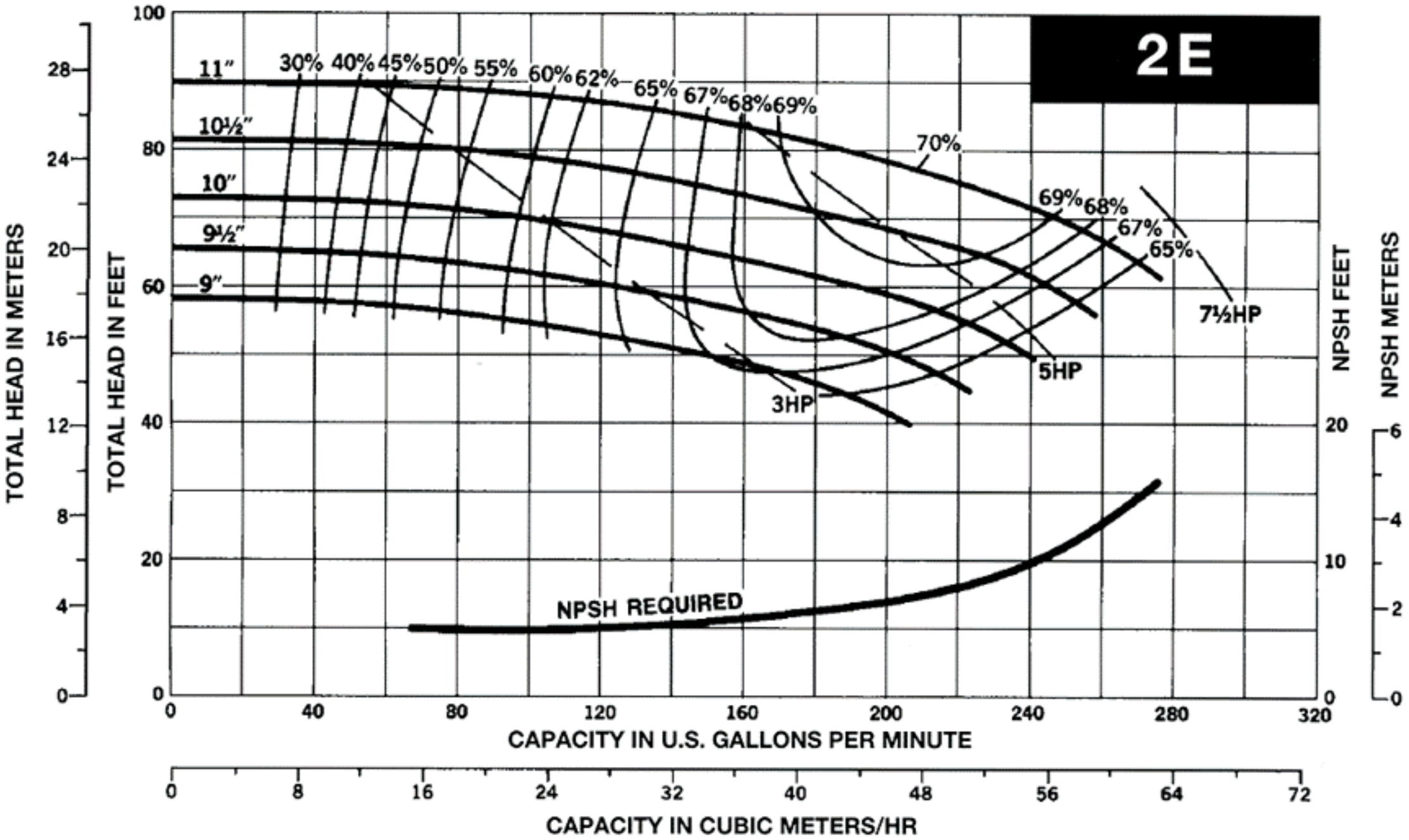

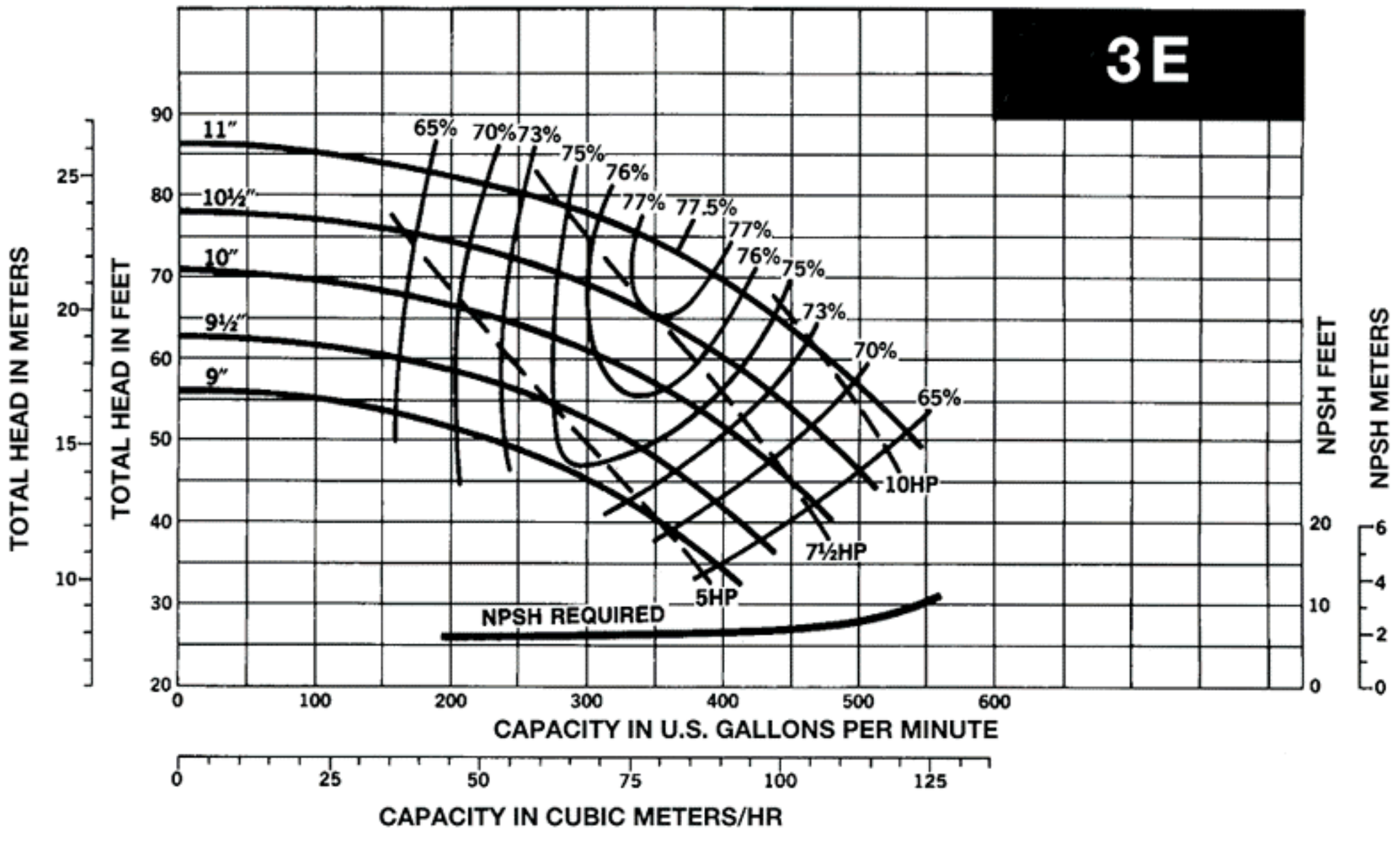

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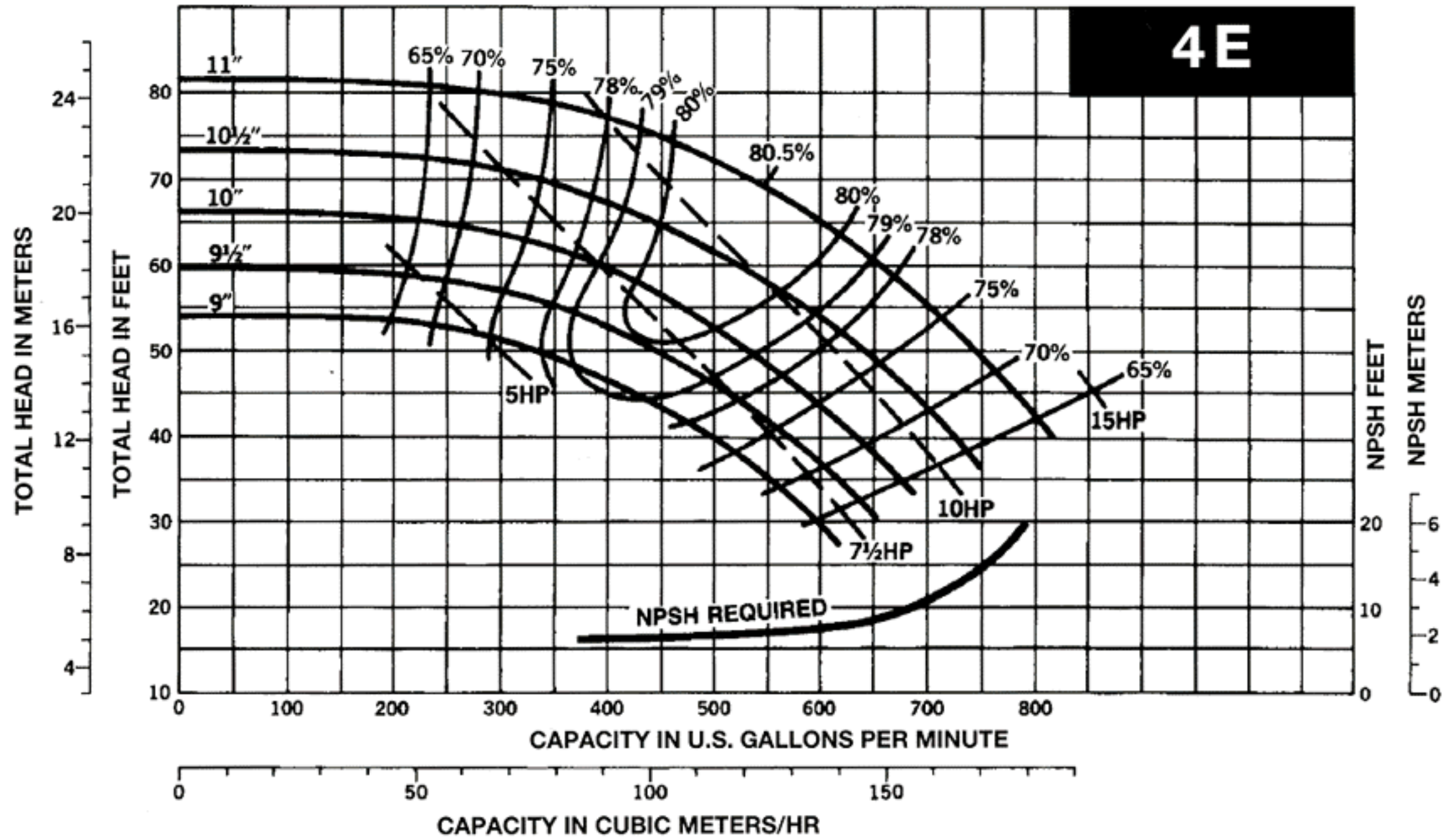

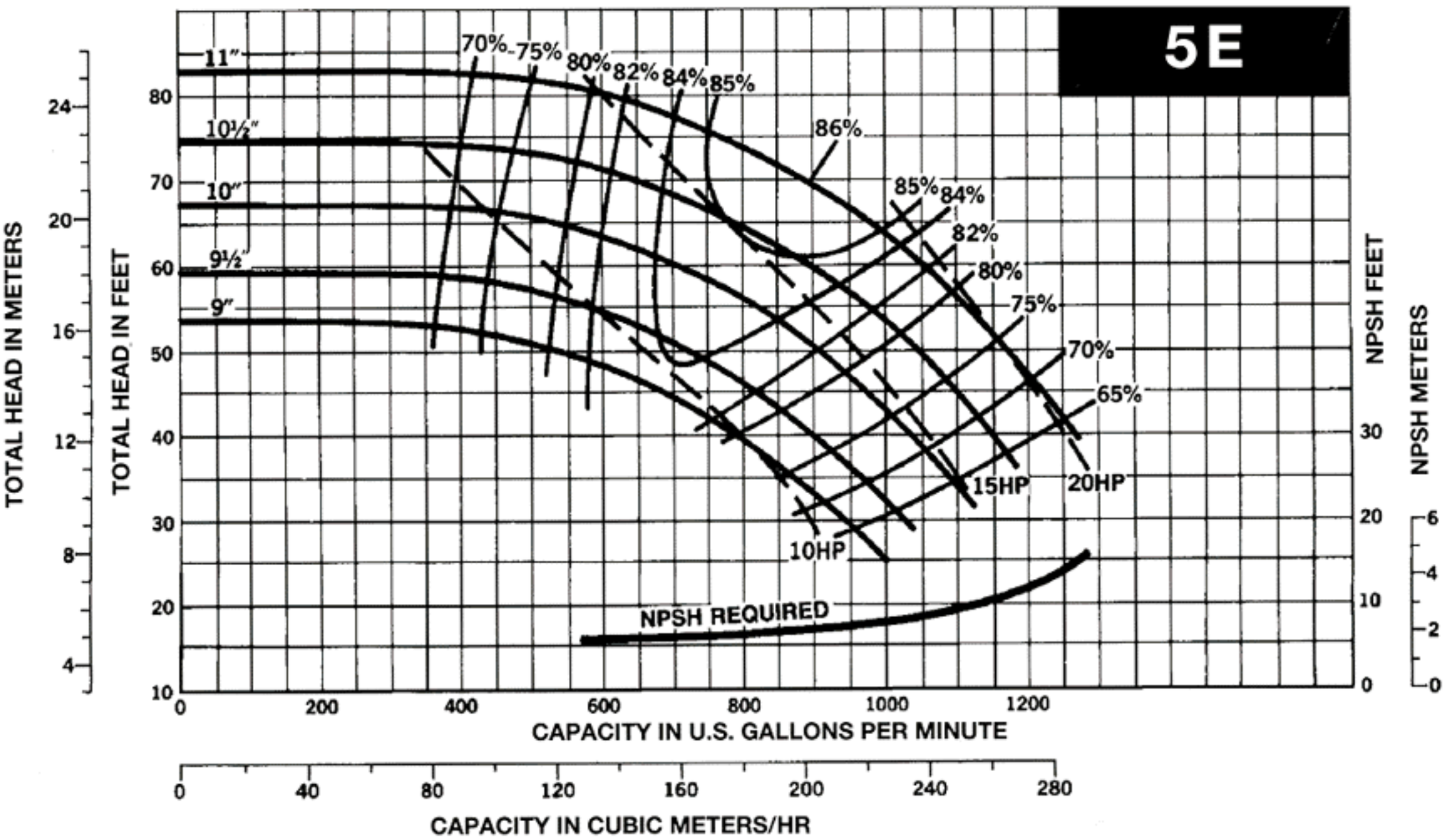

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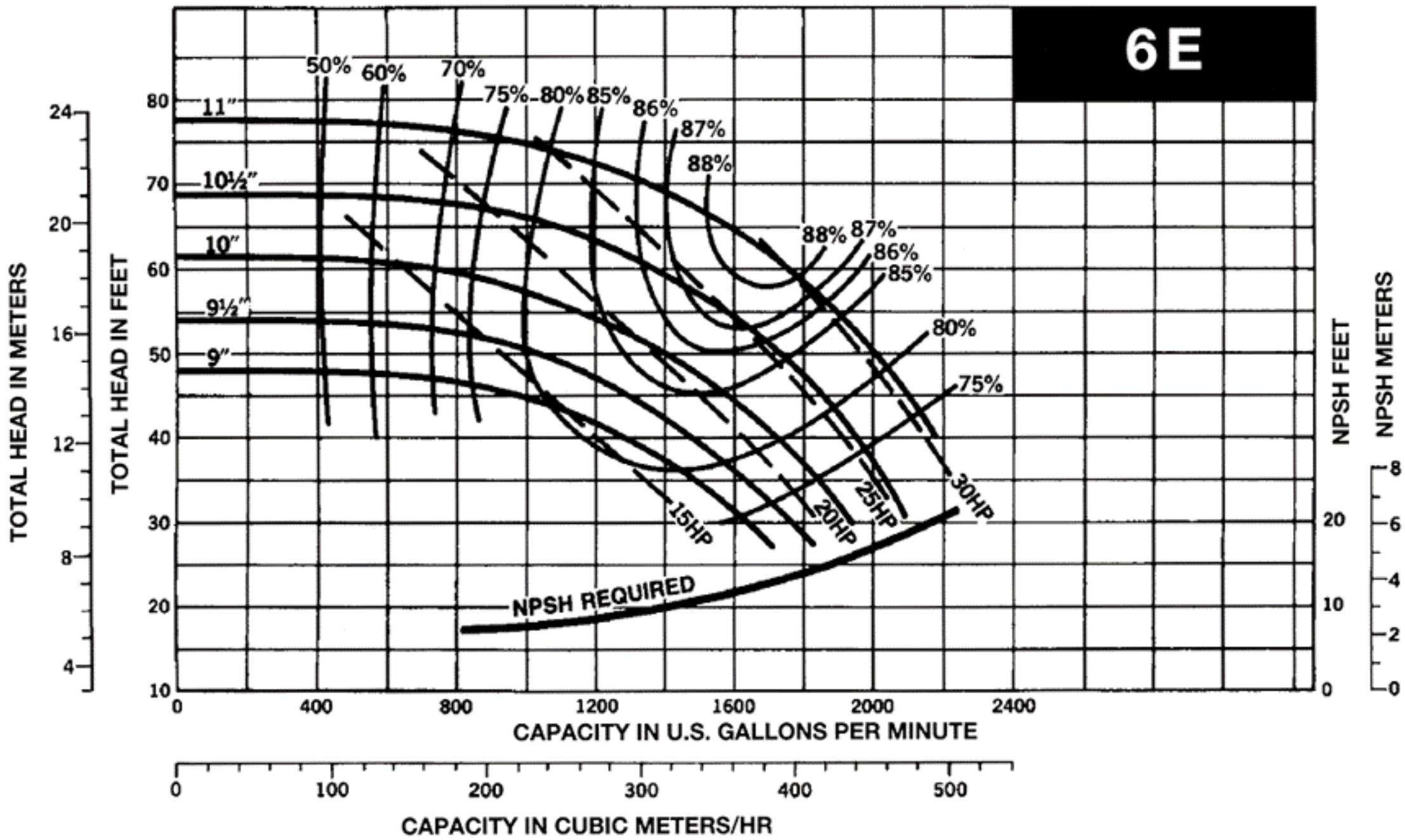
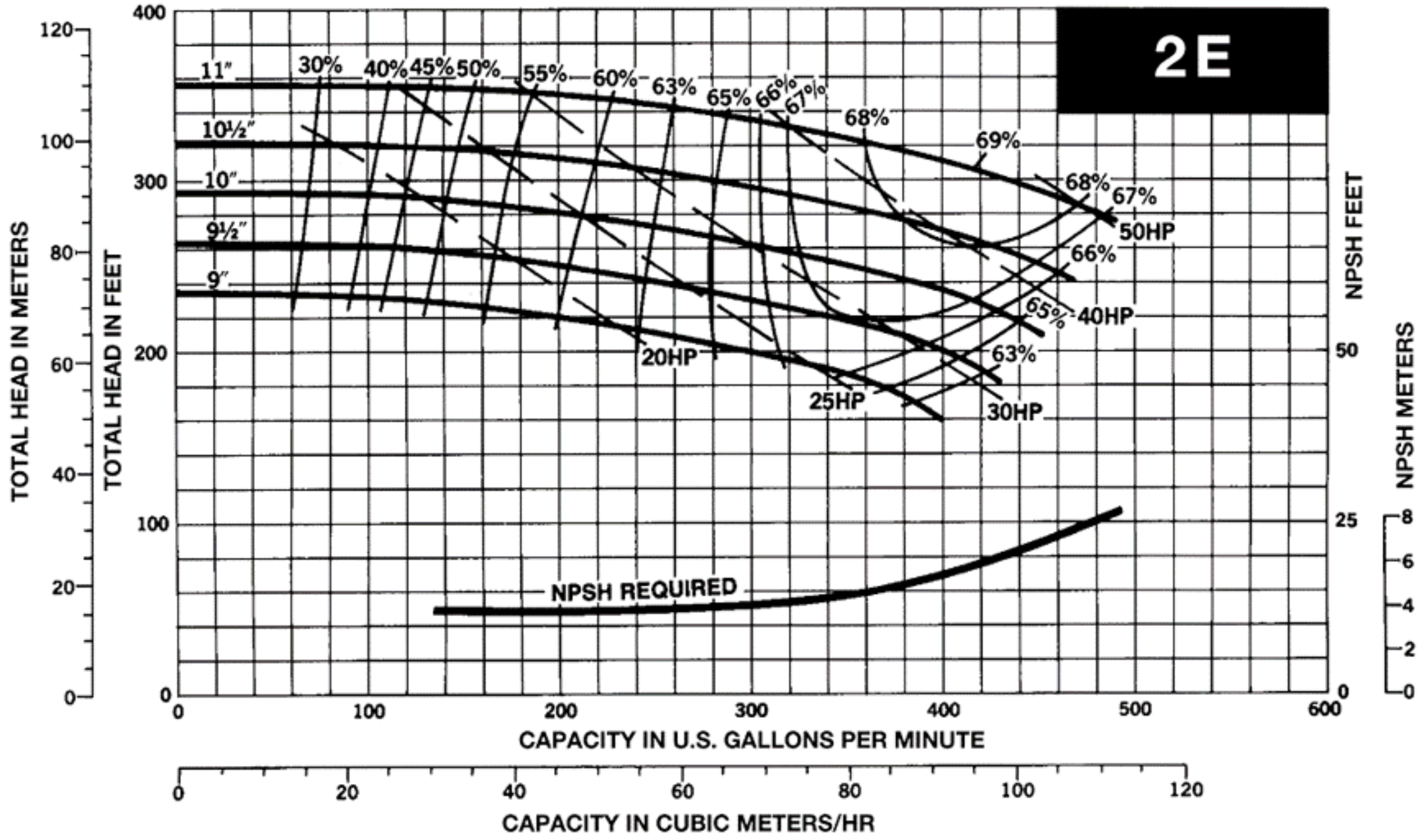
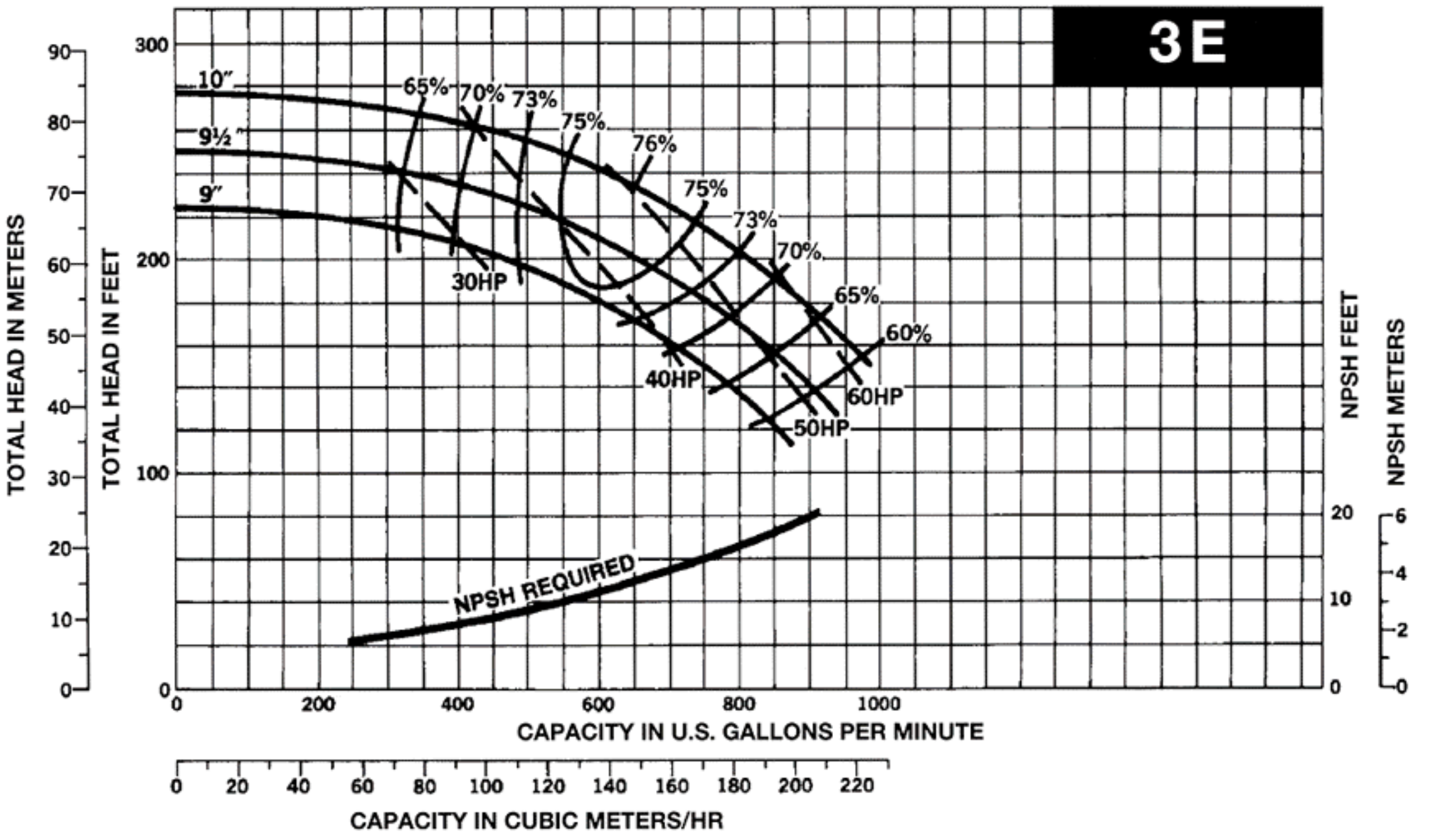


"E" Series 2900 RPM • Series 1510 Only





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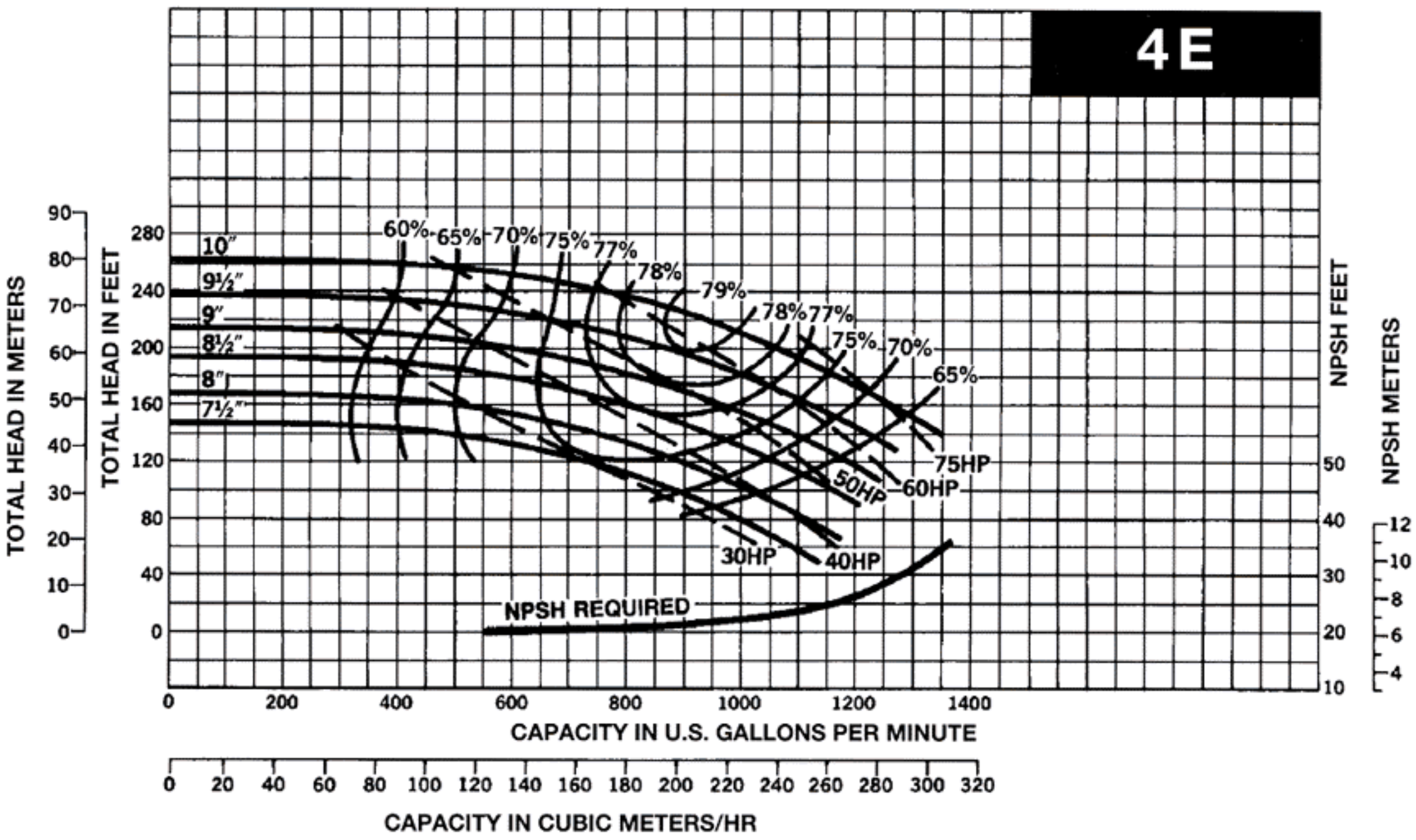
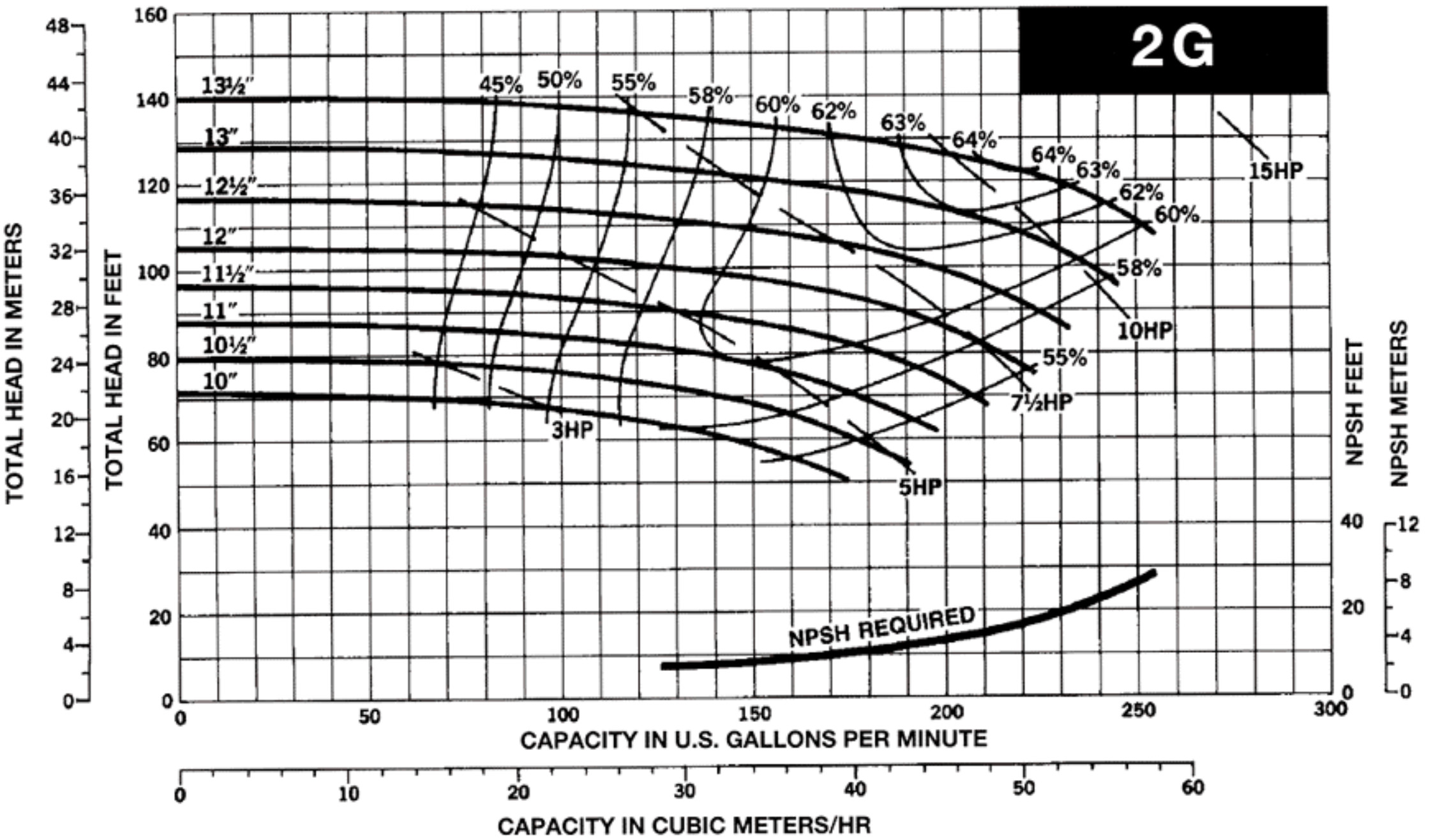
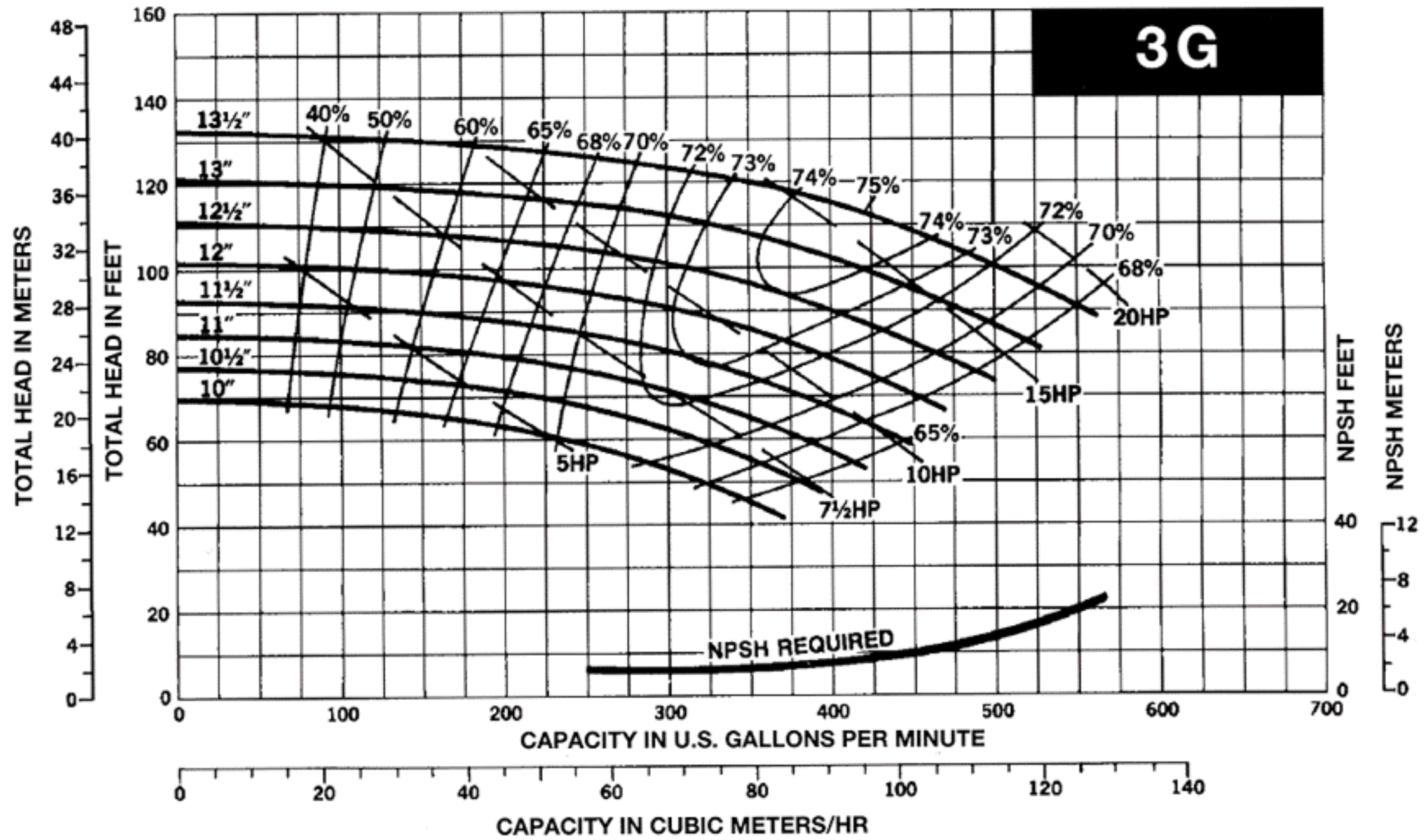
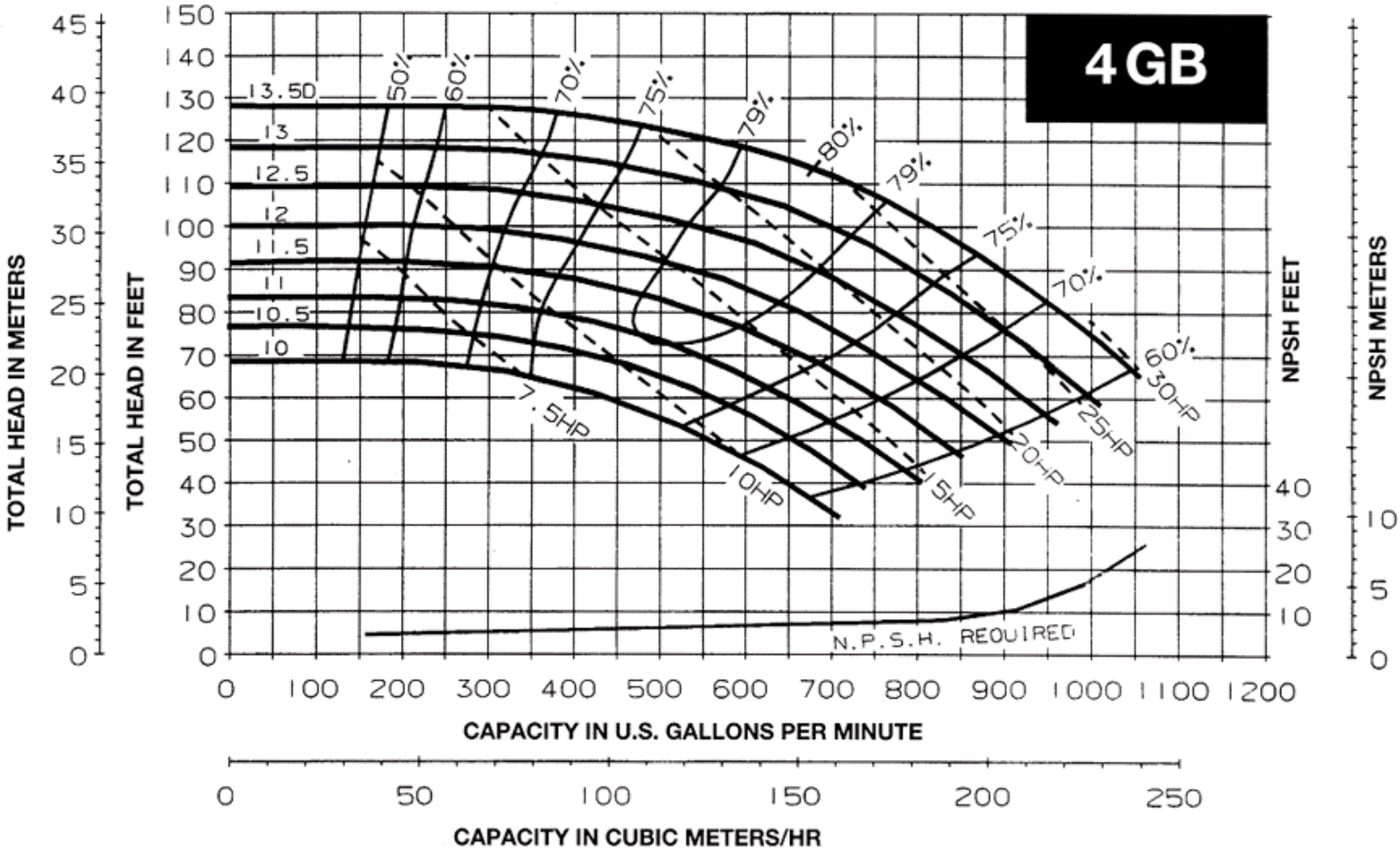


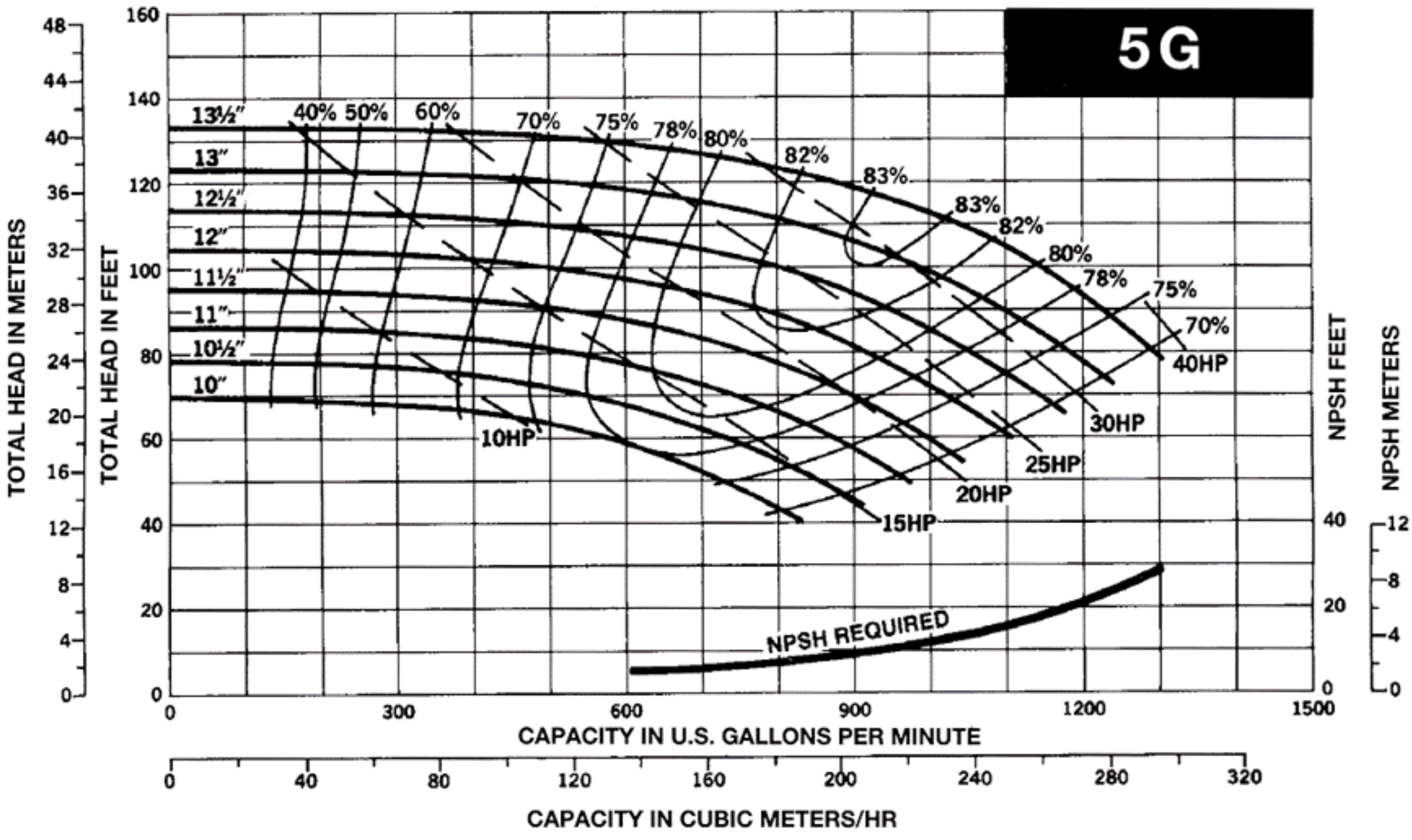
"G" Series 1450 RPM • Series 1510 Only



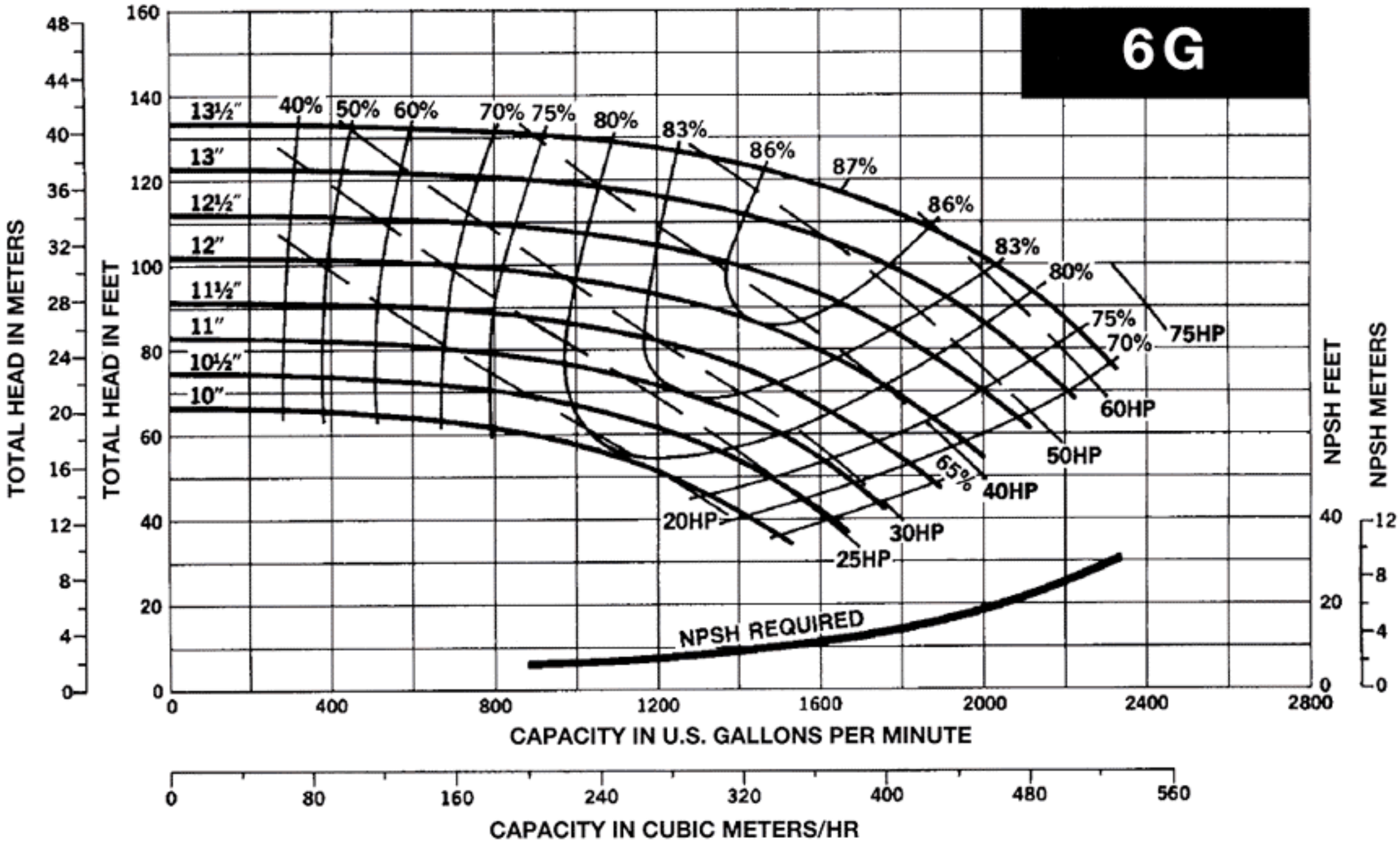


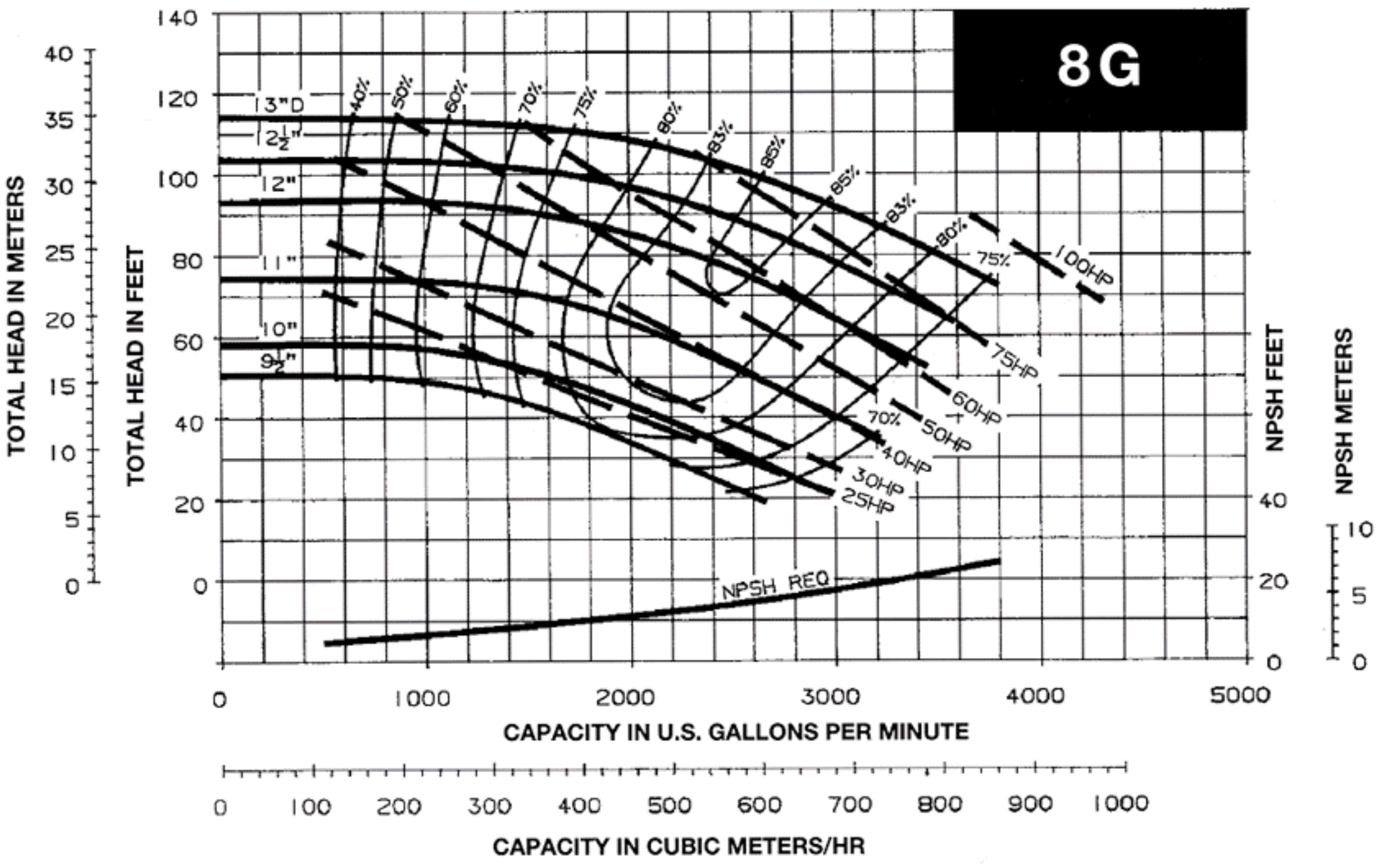
"G" Series 1450 RPM • Series 1510 Only





"G" Series 1450 RPM • Series 1510 Only





Xylem |'zīləm|

1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com

xylem
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